State of Utah–Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT

4110 State Office Building/Salt Lake City, Utah 84114/538-3018

REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

DFCM PROJECT NO. 06233030

MAY 2007

CONSTRUCTION DRAWINGS

SYMBOLS AND MATERIAL LEGEND

PLAN AND SECTION INDICATIONS

EARTH
ASPHALT
BATT INSULATION
GRAVEL FILL
METAL STUD
RIGID INSULATION
CONCRETE SECTION
ALUMINUM
PLASTIC LAMINATE
C.M.U.
GYPSUM BOARD
CERAMIC TILE
BRICK
FINISH LUMBER
ACOUSTIC TILE
CONCRETE PLAN
WOOD FRAMING
CARPET & PAD
MARBLE
PLYWOOD
GLASS
PARTICLE BOARD
PLYWOOD LARGE SCALE
GLASS SMALL SCALE
FENCE
4812.0' EXISTING CONTOUR
4812.0' FINISH CONTOUR

SHEET TAGS

ROOM NAME (000)
WINDOW NUMBER (00)
DOOR NUMBER (00)
ELEVATION MARKER
FINISH SPOT ELEV.
WALL TYPE (00)
KEYED NOTE (00)
GLASS TYPE (00)

DETAIL (00 / A-00): DETAIL NUMBER; SHEET ON WHICH DETAIL APPEARS
INTERIOR ELEVATION (A, B, C, D): ELEVATION NUMBER; SHEET ON WHICH ELEVATION APPEARS; INTERIOR DIRECTION
SECTION (00 / A-00): SECTION NUMBER; SHEET ON WHICH SECTION APPEARS
EXTERIOR ELEVATION (00 / A-00): ELEVATION NUMBER; SHEET ON WHICH ELEVATION APPEARS

ABBREVIATIONS

@	AT
ADJ.	ADJUSTABLE
ADJ.	ADJACENT
A.B.	ANCHOR BOLT
A.F.F.	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
ALUM./AL.	ALUMINUM
BRD./BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK (BLOCKING)
B.M.	BENCH MARK
BOT./BTTM.	BOTTOM
CAB.	CABINET
C.O.	CLEAN OUT
C.J.	CONTROL JOINT
CL	CENTER LINE
CLG.	CEILING
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONTD.	CONTINUED
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
COTG	CLEAN OUT TO GRADE
Ø/DIA.	DIAMETER
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
DN.	DOWN
DWGS.	DRAWINGS
DRAWGS	DRAWINGS
EA.	EACH
E.J.	EXPANSION JOINT
ELEV./EL.	ELEVATION
ELEV.	ELEVATOR
E.J.	EXPANSION JOINT
ENL.	ENLARGED
EQ.	EQUAL
EQUIP.	EQUIPMENT
EWC.	ELECTRIC WATER COOLER
EXIST.	EXISTING
EXTG.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F.D.	FLOOR DRAIN
F.E.C.	FIRE EXTINGUISHER CABINET
F.E.	FIRE EXTINGUISHER
FIN.	FINISH
F.F.	FINISH FLOOR
F.H.	FIRE HYDRANT
FL.	FLOOR
FT.	FOOT
F.V.	FIELD VERIFY
GA.	GAUGE
GALV.	GALVANIZED
G.I./GALV.	GALVANIZED IRON
G.B.	GYPSUM BOARD
GYP. BRD.	GYPSUM BOARD
H.B.	HOSE BIBB
H.C.	HANDICAPPED
HD.	HEAD
H.M.	HOLLOW METAL
HOL.MTL.	HOLLOW METAL
HR.	HOUR
HT.	HEIGHT
I.D.	INSIDE DIAMETER
IN.	INCH
INCMG	INCOMING
INFO.	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
JAN	JANITOR
JT.	JOINT
LAM	LAMINATE
MAS.	MASONRY
MAX.	MAXIMUM
MECH.	MECHANICAL
MFR.	MANUFACTURER
MANUF.	MANUFACTURER
MIN.	MINIMUM
M.O.	MASONRY OPENING
MTL.	METAL
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OVER HEAD
OPNG.	OPENING
OPP.	OPPOSITE
OV.	OVER
P.LAM	PLASTIC LAMINATE
P.L.	PROPERTY LINE
PL.	PLATE
PLYWD.	PLYWOOD
PLY.	PLYWOOD
PNTD.	PAINTED
PTD.	PAINTED
PVMT.	PAVEMENT
Q.T.	QUARRY TILE
R./R	RADIUS
RCP	REINFORCED CONCRETE PIPE
R.D.	ROOF DRAIN
REINF.	REINFORCEMENT
REQ.	REQUIRED
RM.	ROOM
R.O.	ROUGH OPENING
SECT.	SECTION
SEC.	SECTION
SHT.	SHEET
SIM.	SIMILAR
SQ./SQ	SQUARE
SPEC.	SPECIFICATION
S.S.	STAINLESS STEEL
S.T.D.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
STRUC.	STRUCTURAL
SUSP.	SUSPENDED
T.B.	TACK BOARD
T.O.	TOP OF
T.O.A.	TOP OF ASPHALT
T.O.B.	TOP OF BEAM
T.O.C.	TOP OF CONCRETE
T.O.C.	TOP OF CURB
T.O.M.	TOP OF MASONRY
T.O.S.	TOP OF SLAB
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V.T.	VINYL TILE
W/	WITH
W.W.M.	WELDED WIRE MESH
W.W.F.	WELDED WIRE FABRIC
WD.	WOOD
WIN.	WINDOW
VEST.	VESTIBULE
VDT.	VIDEO DISPLAY TERMINAL

CODE CRITERIA

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2006
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2006	Building Conservation	2006
International Fire Code	2006	ADA Accessibility	
International Energy Conservation Code	2006	Guidelines	CURRENT

A. Occupancy and Group: M S-1

Change in Use: Yes ____ No X Mixed Occupancy: Yes X No ____
Special Use and Occupancy (e.g. High Rise, Covered Mall): ____

B. Seismic Design Category: D Design Wind Speed: 90 mph

C. Type of Construction (circle one):

I A | I B | II A | II B | III A | III B | IV HT | V A | V B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: NA South: NA East: NA West: NA

E. Mixed Occupancies: ____ Nonseparated Uses: X

F: Sprinklers:
Required: ____ Provided: X Type of Sprinkler System: AUTOMATIC

G: Number of Stories: 1 Building Height: 1

H: Actual Area per Floor (square feet): 12,411 SF SF

I: Tabular Area: 9000 SQ FT

J: Area Modifications:

a) $A_a = A_t + \left[\frac{A_t I_f}{100}\right] + \left[\frac{A_t I_s}{100}\right]$ $\qquad I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30}$

a) $40140 = 9000 + \left[\frac{9000 \times .46}{100}\right]\left[\frac{9000 \times 3}{100}\right]$ $\qquad .46 = 100\left[\frac{365}{510} - 0.25\right]\frac{30}{30}$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$\frac{\text{Actual Area}}{\text{Allowable Area}} \le 1$ $\qquad \frac{6225 \text{ (GROUP M)}}{40140} \le 1$ $\qquad \frac{6186 \text{ (GROUP S-1)}}{40140} \le 1$

c) Total Allowable Area for:
1) One Story: >40140
2) Two Story: A_a(2)____
3) Three Story: A_a(3)____

d) Unlimited Area Building: Yes ____ No ____ Code Section: ____

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0*		Floors - Ceiling Floors		
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	0	
Partitions - Permanent	0		Fire Walls	0	
Fire Barriers	0		Fire Partitions	0	
			Smoke Partitions		

* NORTH EXTERIOR BEARING WALL IS GREATER THAN 5' BUT LESS THAN 10' FROM THE PROPERTY LINE REQUIRING A 1HR RATING. THE WALL IS CONSTRUCTED OF 6X8X16 CMU EXCEEDING THE 1HR RATING PER 2003 IBC TABLE 720.1.3 FOR CONCRETE MASONRY UNITS

L. Design Occupant Load: 124
Exit Width Required: 2 DOORS @ 36 = 72 Exit Width Provided: 108

M. Minimum Number of Required Plumbing Facilities:
a) Water Closets - Required (m) 1 (f) 1 Provided (m) 1 (f) 1
b) Lavatories - Required (m) 1 (f) 1 Provided (m) 1 (f) 1
c) Bath Tubs or Showers: 0
d) Drinking Fountains: 1 Service Sinks: 1

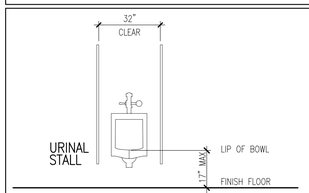
FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through X - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

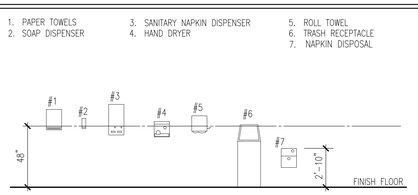
SCHEDULE OF DRAWINGS

TYPICAL HANDICAP TOILET ROOM MOUNTING STANDARDS

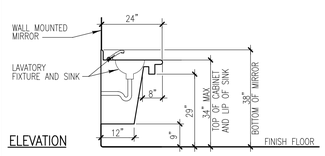


TYPICAL HANDICAP URINAL CLEARANCES

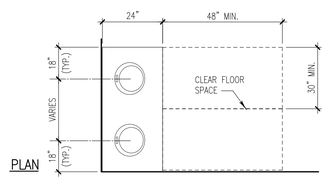
1. PAPER TOWELS
2. SOAP DISPENSER
3. SANITARY NAPKIN DISPENSER
4. HAND DRYER
5. ROLL TOWEL
6. TRASH RECEPTACLE
7. NAPKIN DISPOSAL



MISCELLANEOUS MOUNTING HEIGHTS

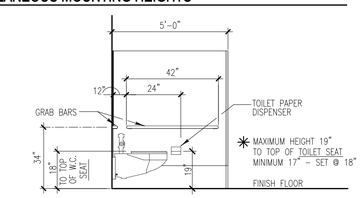


ELEVATION

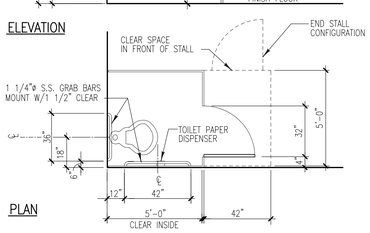


PLAN

TYPICAL HANDICAP LAVATORY CLEARANCES



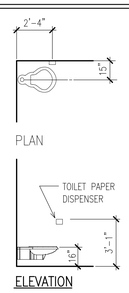
ELEVATION



PLAN

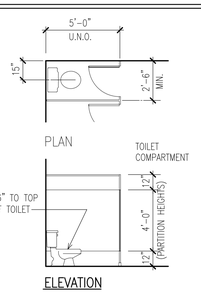
TYPICAL HANDICAP TOILET ROOM CLEARANCES

TYPICAL (NON-HANDICAPPED) TOILET ROOM MOUNTING STANDARDS



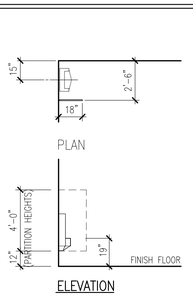
PLAN
ELEVATION

WALL MOUNTED W.C.



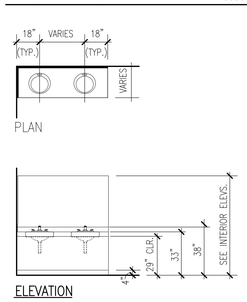
PLAN
ELEVATION

FLOOR MOUNTED WITH COMPARTMENT



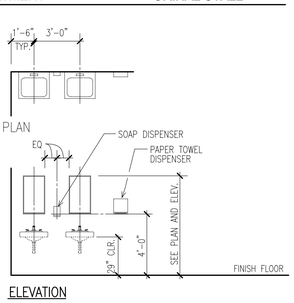
PLAN
ELEVATION

URINAL STALL



PLAN
ELEVATION

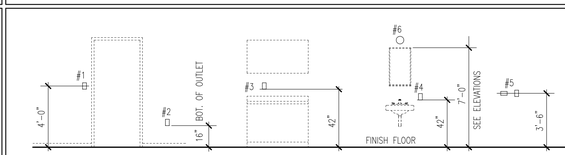
COUNTERTOP LAV



PLAN
ELEVATION

WALL MTD LAV

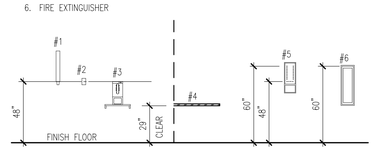
TYPICAL MISCELLANEOUS MOUNTING STANDARDS



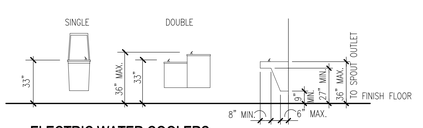
ELECTRICAL OUTLETS AND SWITCHES

ITEM DESIGNATION
1. TYPICAL SWITCH HEIGHT
2. TYPICAL OUTLET HEIGHT
3. TYPICAL OUTLET HEIGHT AT COUNTERTOP
4. TYPICAL G.F.I. OUTLET HEIGHT AT LAVATORY
5. TYPICAL OUTLET HEIGHT FOR LAUNDRY ROOM AND UTILITY ROOM
6. TYPICAL BATH LIGHT FIXTURE HEIGHT

ITEM DESIGNATION
1. PAPER CUP DISPENSER
2. ELECTRIC SWITCH/THERMOSTAT/FIRE ALARM
3. TELEPHONE
4. COUNTER TOP/DESK
5. ELEVATOR CONTROLS
6. FIRE EXTINGUISHER

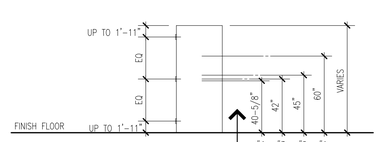


MISCELLANEOUS MOUNTING HEIGHTS

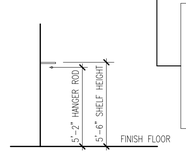


ELECTRIC WATER COOLERS

ITEM DESIGNATION
1. DEADLOCK AND STRIKE
2. PUSH AND PULL LATCHES, ARM PULL, (LOWER BASE), PULL PLATE CENTER LINE
3. BAR AND PULL CENTER LINE
4. CENTER LINE STRIKE, KNOB, LOCKS, HANDLE SETS, ROLLER LATCHES, EXIT BOLTS LOCKS



DOORS



24" CLEARANCE
PROVIDE 24" MINIMUM CLEARANCE FROM EDGE OF DOOR (@ LATCH SIDE) TO ADJACENT WALL WHEN DOOR PULLS TOWARDS YOU.

18" CLEARANCE
PROVIDE 18" MINIMUM CLEARANCE FROM EDGE OF DOOR (@ LATCH SIDE) TO ADJACENT WALL WHEN DOOR PUSHES AWAY FROM YOU.

CLOSETS

REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

SCHEDULE OF DRAWINGS, MOUNTING STANDARDS, CODE REVIEW

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

REVISION # DATE:
△ 7/06/06

DFCM PROJECT NO.:
06233030
CONSTR. DOC.
FILE NAME: ABCR-G002
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MAY 2007

G
002

PROJECT INFORMATION

OWNER: STATE OF UTAH
DIVISION OF FACILITIES
CONSTRUCTION AND MANAGEMENT
4110 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114

ARCHITECT: FRANK N MURDOCK JR
ARCHITECT + ASSOCIATES
975 EAST 100 SOUTH
SALT LAKE CITY, UTAH 84102

PROPOSED USE
STATE LIQUOR STORE

PROPOSED ADDRESS
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

SITE INFORMATION (NOT FOR MATERIAL TAKE OFF USE)

TOTAL SITE:	33,836 SQ FT ±	
BUILDING FOOTPRINT:	8,410 SQ FT	15%
HARD SURFACE AREA:	36,722 SQ FT	67%
LANDSCAPING AREA:	9,338 SQ FT	18%

PARKING INFORMATION
CUSTOMER &
EMPLOYEE PARKING: 42 PARKING STALLS
1 STALL / 200 SQ FT OF GROSS AREA

SITE DRAWINGS

SEE SHEET AS101 FOR GENERAL SITE DEMOLITION PLAN AND NEW SITE PLAN
SEE SHEET AS102 FOR SITE GRADING AND STORM SEWER INFORMATION
SEE SHEET AS103 FOR SITE UTILITY INFORMATION
SEE SHEET AS501 FOR SITE DETAIL INFORMATION

SITE PLAN LEGEND

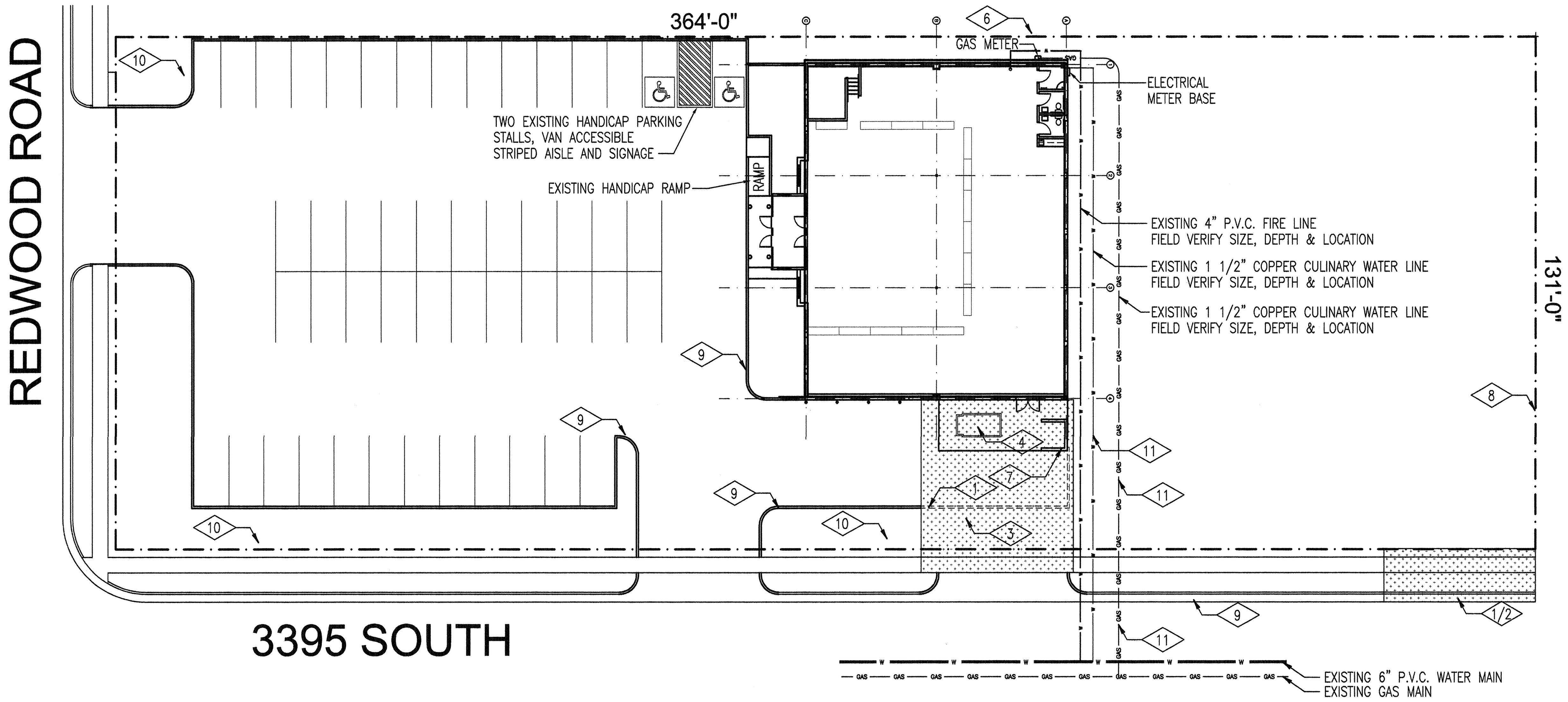
CATCH BASIN	T.O.G	TOP OF GRATE	FENCE	
STORM DRAIN MAN HOLE	I.E.	INVERT ELEVATION	FENCE	
POWER POLE	T.O.SW	TOP OS SIDEWALK	2 – 4" PVC PIPE SLEEVE	
WATER VALVE	T.O.PV	TOP OF PAVEMENT	4434	EXISTING GRADE CONTOUR
ELECTRIC BOX	T.O.C.	TOP OF CONCRETE	31	NEW GRADE CONTOUR
FIRE HYDRANT		OVERHEAD POWER LINE		CENTER LINE OF ROAD
LIGHT POST		UNDERGROUND POWER	A B	SIGN TYPES – SEE 2/AS501
STREET LIGHT BOX	SS	SANITARY SEWER		NEW CONCRETE PAVING AND SIDEWALKS
GAS METER	W	WATER LINE		
TELEPHONE BOX	T	TELEPHONE LINE		
PL PROPERTY LINE	G	GAS LINE		
L LANDSCAPE AREA	C	CABLE T.V.		
SW SIDEWALK		PARKING STALLS		
SANITARY SEWER MAN HOLE				

GENERAL NOTES

1. REFER TO SITE DEVELOPMENT, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL SITE INFORMATION.
2. CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES TO THE CONTRACT DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AT ALL POINTS.
4. CONTRACTOR SHALL NOT PARK, STORE EQUIPMENT, OR USE THE EXISTING ROAD FOR ANY PURPOSE OTHER THAN ACCESS TO THE PROJECT SITE. CONTRACTOR SHALL NOT DISTURB OR USE ANY AREA OUTSIDE CONTRACT LIMIT LINE TO PARK OR STORE EQUIPMENT. UNLESS OTHERWISE NOTED, THE PROPERTY LINE SHALL FORM THE BOUNDARY OF THE CONTRACT LIMIT LINE.
5. CONTRACTOR WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
6. ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
7. PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT PAVEMENT, SIDEWALKS OR RETAINING WALLS.
8. PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.
9. REPAIR OR REPLACE ANY DAMAGE TO EXISTING PROPERTY, PAVEMENT, STRUCTURES, ETC. CAUSED BY WORK UNDER THIS CONTRACT WHICH ARE NOT SCHEDULE TO BE REMOVED.
10. MAINTAIN EXISTING UTILITIES IN FULL OPERATION. SHUT DOWN OF EXISTING UTILITIES IS TO BE KEPT TO A MINIMUM. 72 HOUR NOTICE IS TO BE GIVEN TO THE OWNER PRIOR TO ANY UTILITY SHUT DOWN.
11. THE STAGING AREA FOR THIS PROJECT IS LIMITED. STAGING IS TO BE KEPT WITHIN THE PROPERTY LINES. ACCESS TO THE ADJOINING PROPERTIES IS TO BE MAINTAINED DURING CONSTRUCTION. THE AREA OF CONSTRUCTION IS TO BE FENCED AT ALL TIMES.
12. MAINTAIN AND PROTECT EXISTING LANDSCAPING NOT SCHEDULED FOR REMOVAL. REPLACE ANY LANDSCAPING DAMAGES DURING CONSTRUCTION.

REFERENCE NOTES DEMOLITION SITE PLAN

1. REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE CURBS AND GUTTERS.
2. REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE SIDEWALK.
3. REMOVE AND PROPERLY DISPOSE OF EXISTING LANDSCAPING INCLUDING ALL TREES AND SHRUBS WITHIN THE NEW CONSTRUCTION AREA.
4. REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE PAD AND CURBS AT SISSOR LIFT. MAINTAIN EXISTING LIFT IN OPERATION UNTIL NEW LIFT IS OPERATIONAL.
5. NOT USED
6. RELOCATE EXISTING NATURAL GAS LINE AND METER AS DIRECTED BY SERVICE PROVIDER. COORDINATE THE REMOVAL AND RELOCATION OF METER WITH THE UTILITY PROVIDER.
7. REMOVE EXISTING DUMPSTER ENCLOSURE.
8. MAINTAIN AND PROTECT EXISTING FENCE.
9. MAINTAIN AND PROTECT EXISTING CURBS, GUTTERS AND ASPHALT. REPLACE ANY EXISTING CURBS, GUTTERS OR ASPHALT DAMAGED BY NEW CONSTRUCTION.
10. MAINTAIN AND PROTECT EXISTING LANDSCAPING AND SPRINKLING SYSTEMS. REPLACE ANY LANDSCAPING OR SPRINKLING SYSTEMS DAMAGED BY NEW CONSTRUCTION.
11. SEE SHEET AS-102 FOR RELOCATION OR ABANDONMENT OF EXISITNG UTILITY SERVICES REPLACE ANY ASPHALT, CONCRETE, LANDSCAPING OR SPRINKLING SYSTEMS DAMAGED BY NEW CONSTRUCTION.



ABC STORE - REDWOOD RD - EXISTING SITE

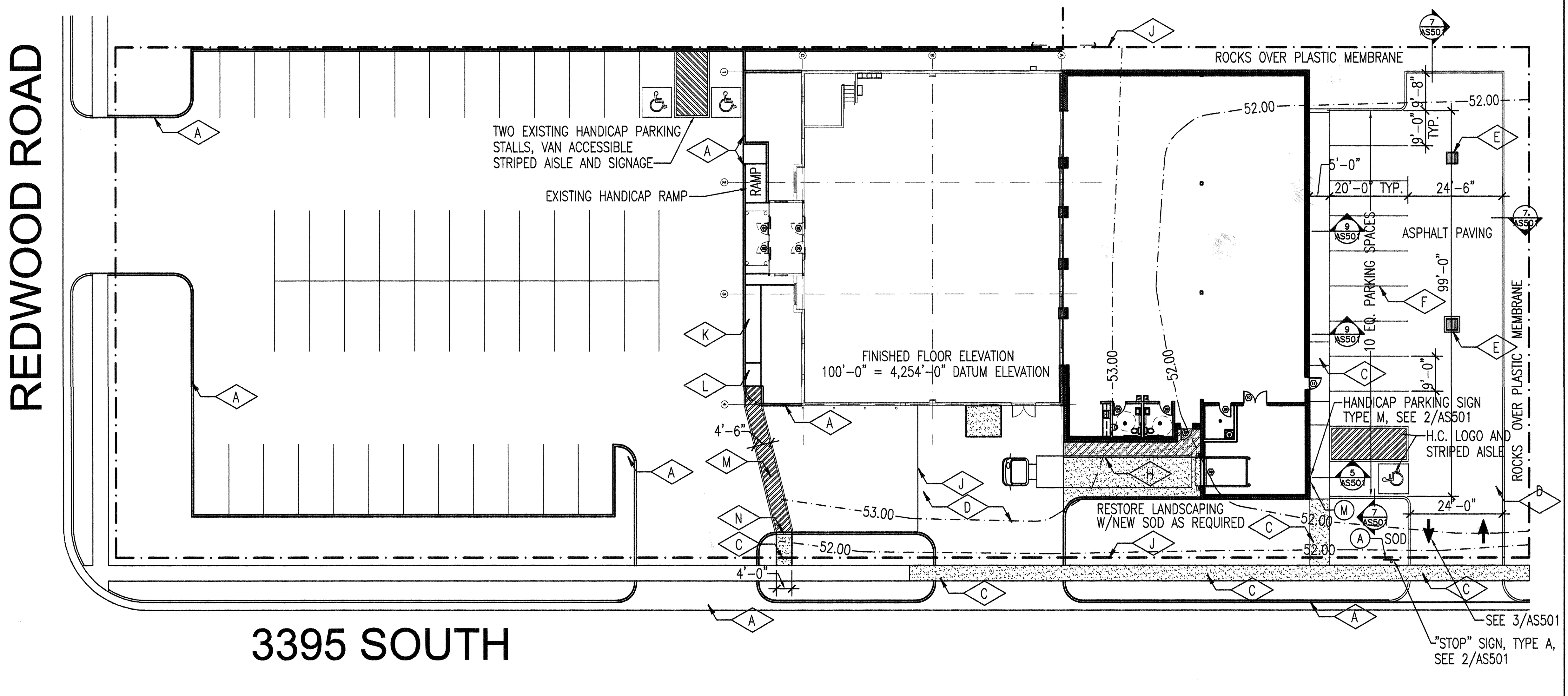
SCALE: 1" = 20'
0 10' 25' 50'

DEMOLITION AND SITE CLEARING

IT IS THE INTENT OF THIS PROJECT TO REMOVE AND PROPERLY DISPOSE OF ALL EXISTING IMPROVEMENTS NOTED TO BE REMOVED. SAW CUT EXISTING ASPHALT IN AREAS NOTED TO BE REMOVED. THE AREAS OF THE SITE SCHEDULED FOR NEW CONSTRUCTION SHOULD THEN BE GRUBBED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS REPORT AND PREPARED FOR NEW CONSTRUCTION.

REFERENCE NOTES SITE PLAN

A. MAINTAIN AND PROTECT EXISTING SITE ELEMENTS TO REMAIN INCLUDING EXISTING RETAINING WALLS, FENCES, STORM DRAIN BASIN AND CURBS AND GUTTERS.
B. NEW CONCRETE CURB AND GUTTER. SEE DETAIL 6/AS501
C. NEW 4" THICK CONCRETE SIDEWALK. SEE DETAILS 11, 12 AND 13 SHEET AS501 ALIGN WITH EDGES AND ELEVATIONS OF EXISTING SIDEWALKS WHERE NEW AND EXISTING SIDEWALKS MEET.
JOINTS AS NOTED BELOW TYPICAL UNLESS NOTED OTHERWISE
CONTROL JOINT IN CONCRETE SIDEWALK: @ 5'-0" O.C. – SEE DETAIL 12/AS501.
EXPANSION JOINT IN CONCRETE SIDEWALK @ 20'-0" O.C. – SEE DETAIL 13/AS501.
D. NEW ASPHALT CONCRETE PAVING. SEE DETAIL 10/AS501 FOR PAVEMENT SECTION. SEE SOILS REPORT FOR DEPTH OF FILL AND COMPACTION REQUIREMENTS IN THIS AREA.
E. NEW DRY SUMP CATCH BASIN SEE DETAIL 1/AS102
F. NEW PARKING STRIPING SEE DETAIL 3/AS501
G. NEW CONCRETE SPLASH BLOCK.
H. NEW 8" THICK CONCRETE APRON, SEE 5/AS501. CONCRETE AT APRONS AND DRIVES (INCLUDING SIDEWALK AT DRIVE) TO BE MINIMUM 8" THICK.
J. APPROXIMATE LOCATION OF CONSTRUCTION FENCE. EXACT LOCATION TO BE COORDINATED WITH OWNER.
K. REMOVE LANDSCAPING. INSTALL NEW 4' WIDE CONCRETE SIDEWALK, MAX. GRADE 1:20
L. REMOVE LANDSCAPING AND SECTION OF EXISTING CONCRETE CURB. INSTALL NEW 4' WIDE CONCRETE RAMP, MAX. SLOPE 1:12 IN 6'-0".
M. PAINT 4" WIDE STRIPING (2 COATS) TO DESIGNATE WALKWAY.
N. REMOVE LANDSCAPING AND SECTION OF EXISTING CONCRETE CURB. INSTALL NEW 4' WIDE CONCRETE SIDEWALK, MAX. SLOPE 1:20.



ABC STORE ADDITION - REDWOOD RD - SITE PLAN

SCALE: 1" = 20'
0 10' 25' 50'

73 PARKING STALLS

REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION
DEPT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

SITE PLAN AND SITE DEMOLITION PLAN

STATE OF UTAH — FRANK N. MURDOCK JR — 124498 — LICENSED ARCHITECT — 6/4/07

REVISION # DATE:

DFCM PROJECT NO.: 06233030
CONST DOC
FILE NAME: ABCR-AS101
PLOT SCALE: 1:240
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MAY 2007

AS 101

PROJECT INFORMATION

OWNER: STATE OF UTAH
DIVISION OF FACILITIES
CONSTRUCTION AND MANAGEMENT
4110 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114

ARCHITECT: FRANK N MURDOCK JR
ARCHITECT + ASSOCIATES
975 EAST 100 SOUTH
SALT LAKE CITY, UTAH 84102

PROPOSED USE
STATE LIQUOR STORE

PROPOSED ADDRESS
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

SITE INFORMATION (NOT FOR MATERIAL TAKE OFF USE)

TOTAL SITE:	33,836 SQ FT ±	
BUILDING FOOTPRINT:	8,410 SQ FT	15%
HARD SURFACE AREA:	36,722 SQ FT	67%
LANDSCAPING AREA:	9,338 SQ FT	18%

PARKING INFORMATION
CUSTOMER &
EMPLOYEE PARKING: 42 PARKING STALLS
1 STALL / 200 SQ FT OF GROSS AREA

SITE DRAWINGS

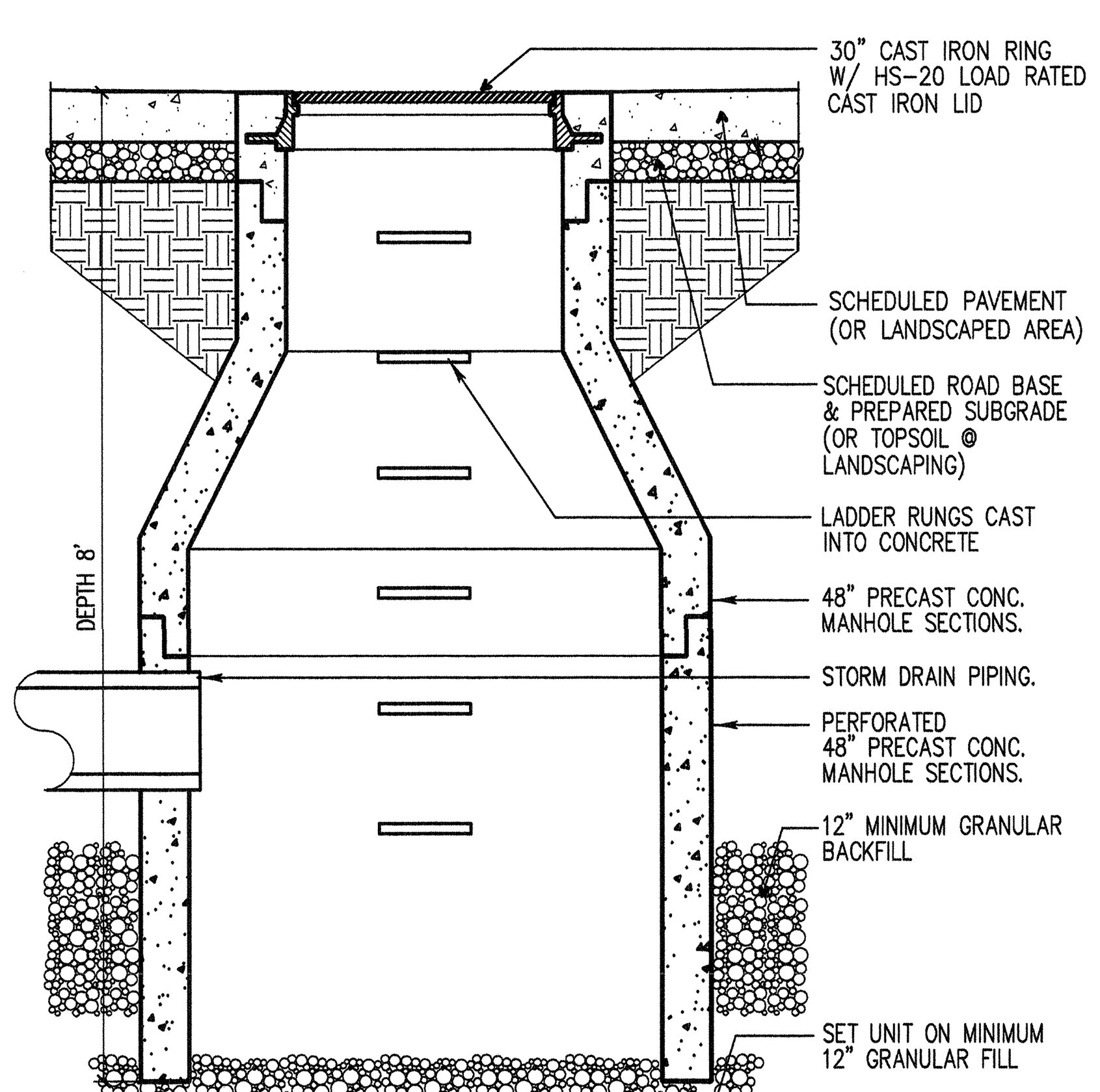
SEE SHEET AS101 FOR GENERAL SITE DEMOLITION PLAN AND NEW SITE PLAN
SEE SHEET AS102 FOR SITE GRADING AND STORM SEWER INFORMATION
SEE SHEET AS103 FOR SITE UTILITY INFORMATION
SEE SHEET AS501 FOR SITE DETAIL INFORMATION

SITE PLAN LEGEND

CATCH BASIN	T.O.G	TOP OF GRATE	FENCE	
STORM DRAIN MAN HOLE	I.E.	INVERT ELEVATION	FENCE	
POWER POLE	T.O.SW	TOP OS SIDEWALK	2 – 4" PVC PIPE SLEEVE	
WATER VALVE	T.O.PV	TOP OF PAVEMENT		
ELECTRIC BOX	T.O.C.	TOP OF CONCRETE	4434	EXISTING GRADE CONTOUR
FIRE HYDRANT		OVERHEAD POWER LINE		
LIGHT POST		UNDERGROUND POWER	31	NEW GRADE CONTOUR
STREET LIGHT BOX	SS	SANITARY SEWER		
GAS METER	W	WATER LINE		CENTER LINE OF ROAD
TELEPHONE BOX	T	TELEPHONE LINE		
PL PROPERTY LINE	G	GAS LINE	A B	SIGN TYPES – SEE 2/AS501
L LANDSCAPE AREA	C	CABLE T.V.		
SW SIDEWALK		PARKING STALLS		NEW CONCRETE PAVING AND SIDEWALKS
SANITARY SEWER MAN HOLE				

GENERAL NOTES

1. REFER TO SITE DEVELOPMENT, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL SITE INFORMATION.
2. CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES TO THE CONTRACT DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AT ALL POINTS.
4. CONTRACTOR SHALL NOT PARK, STORE EQUIPMENT, OR USE THE EXISTING ROAD FOR ANY PURPOSE OTHER THAN ACCESS TO THE PROJECT SITE. CONTRACTOR SHALL NOT DISTURB OR USE ANY AREA OUTSIDE CONTRACT LIMIT LINE TO PARK OR STORE EQUIPMENT. UNLESS OTHERWISE NOTED, THE PROPERTY LINE SHALL FORM THE BOUNDARY OF THE CONTRACT LIMIT LINE.
5. CONTRACTOR WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
6. ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
7. PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT PAVEMENT, SIDEWALKS OR RETAINING WALLS.
8. PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.
9. REPAIR OR REPLACE ANY DAMAGE TO EXISTING PROPERTY, PAVEMENT, STRUCTURES, ETC. CAUSED BY WORK UNDER THIS CONTRACT WHICH ARE NOT SCHEDULE TO BE REMOVED.
10. MAINTAIN EXISTING UTILITIES IN FULL OPERATION. SHUT DOWN OF EXISTING UTILITIES IS TO BE KEPT TO A MINIMUM. 72 HOUR NOTICE IS TO BE GIVEN TO THE OWNER PRIOR TO ANY UTILITY SHUT DOWN.
11. THE STAGING AREA FOR THIS PROJECT IS LIMITED. STAGING IS TO BE KEPT WITHIN THE PROPERTY LINES. ACCESS TO THE ADJOINING PROPERTIES IS TO BE MAINTAINED DURING CONSTRUCTION. THE AREA OF CONSTRUCTION IS TO BE FENCED AT ALL TIMES.
12. MAINTAIN AND PROTECT EXISTING LANDSCAPING NOT SCHEDULED FOR REMOVAL. REPLACE ANY LANDSCAPING DAMAGES DURING CONSTRUCTION.



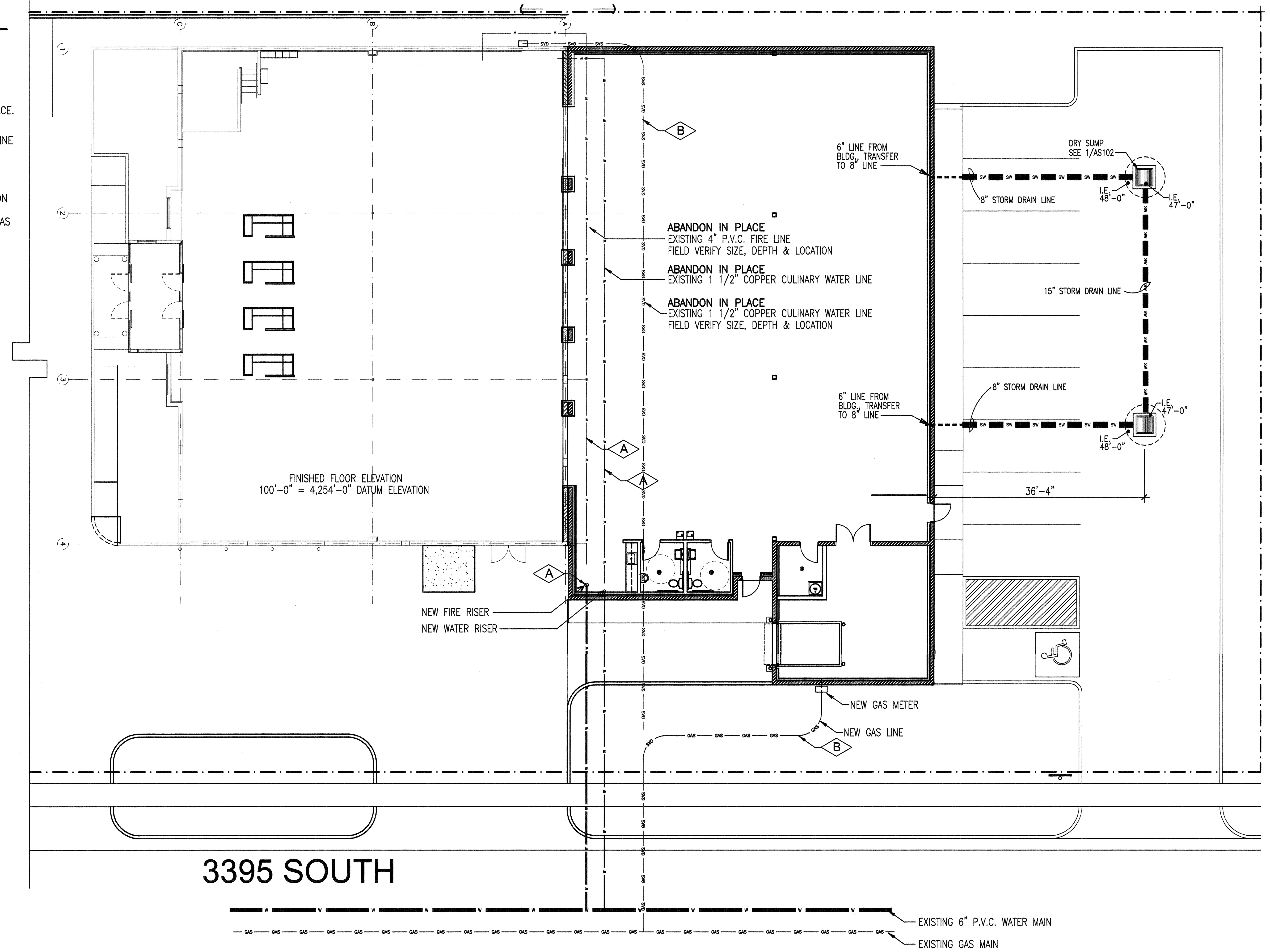
NOTE: DRY SUMP MUST BE INSTALLED IN AN AREA WITH SOIL OF GOOD PERCOLATION. COORDINATE DEPTH OF DRY SUMP w/ SOIL CONDITIONS AND FREE DRAINING SOIL STRATA.

1 / AS102 DRY SUMP SECTION
SCALE: 3/4" = 1'-0"
SITE-015

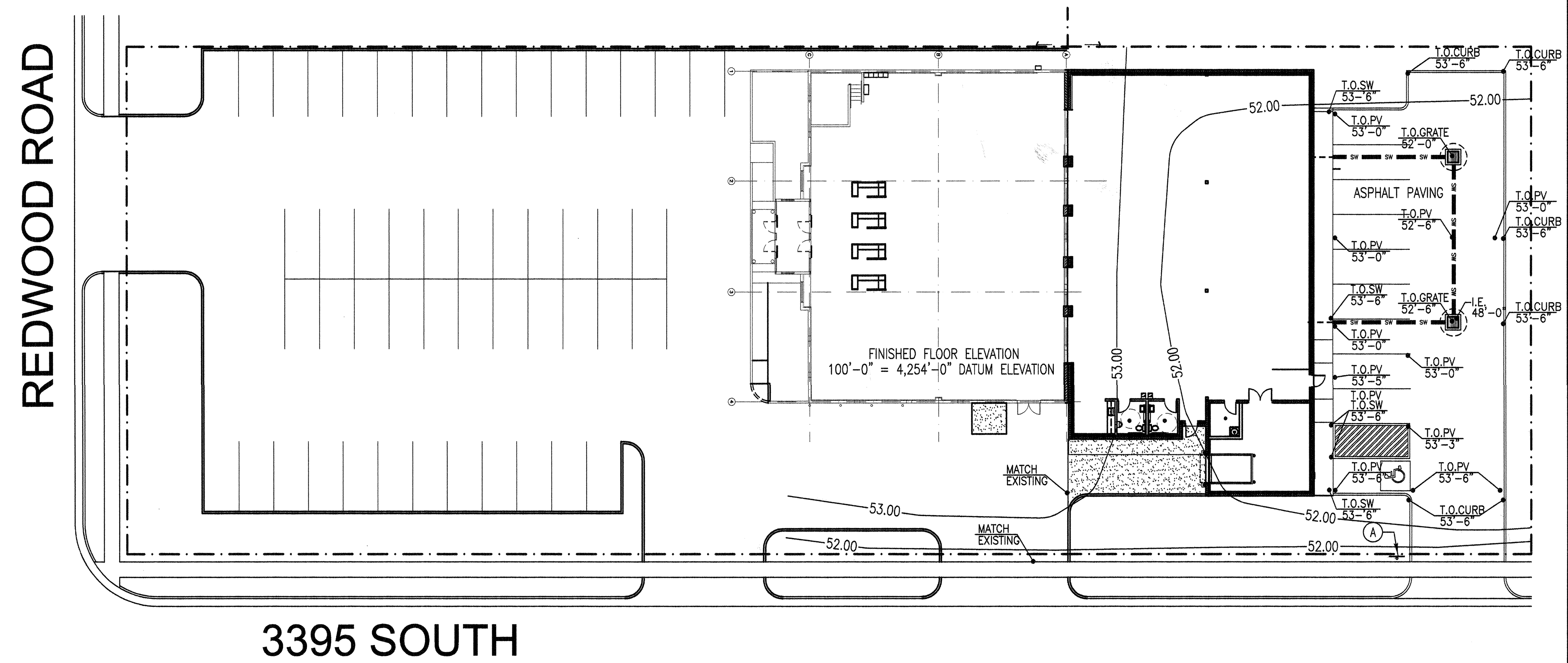
UTILITY NOTES

A. CONTRACTOR IS TO LOCATE EXISTING WATER LINES AND PROVIDE NEW FIRE SPRINKLER AND CULINARY WATER RISERS IN APPROXIMATE LOCATIONS INDICATED. EXTEND NEW FIRE SPRINKLING LINE OVERHEAD TO PROVIDE SERVICE TO EXISTING FIRE SPRINKLING SYSTEM.
TERMINATE EXISTING SERVICE TO EXISTING FIRE SPRINKLER RISER AND ABANDON EXISTING UNDERGROUND SERVICE IN PLACE.

B. CONTRACTOR IS TO LOCATE EXISTING NATURAL GAS SERVICE LINE AND PROVIDE NEW GAS SERVICE AND METER IN APPROXIMATE LOCATION INDICATED. EXTEND NEW GAS SERVICE LINE TO PROVIDE SERVICE TO NEW AND EXISTING MECHANICAL EQUIPMENT.
TERMINATE EXISTING SERVICE TO EXISTING METER AND ABANDON EXISTING UNDERGROUND SERVICE IN PLACE.
COORDINATE NEW SERVICE AND INSTALLATION WITH NATURAL GAS SERVICE PROVIDER.



ABC STORE ADDITION - REDWOOD RD - SITE UTILITY PLAN
SCALE: 1" = 10'
0 5' 10' 20'



ABC STORE ADDITION - REDWOOD RD - SITE GRADING PLAN
SCALE: 1" = 20'
0 10' 25' 50'
73 PARKING STALLS

REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION
DEPT OF ALCOHOLIC BEVERAGE CONTROL
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SITE GRADING AND UTILITY PLANS

STATE OF UTAH
FRANK N. MURDOCK
134498
6/9/07
LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
06233030
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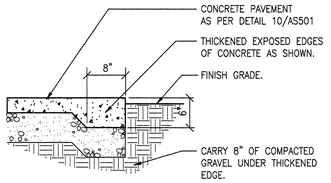
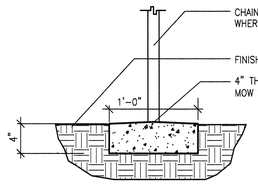
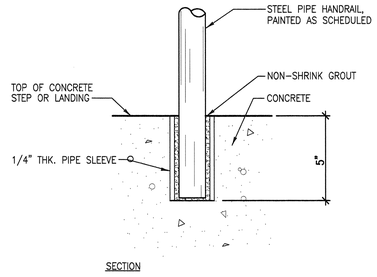
AS
102



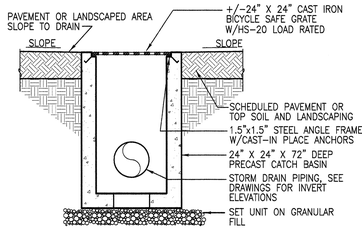
25 AS501 CONCRETE EDGE DETAIL
SCALE: 1" = 1'-0"



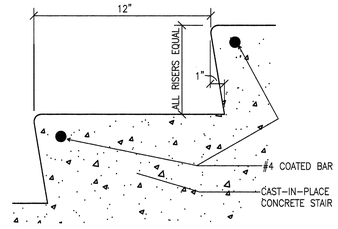
24 AS501 CONCRETE MOW STRIP DETAIL
SCALE: NOT TO SCALE



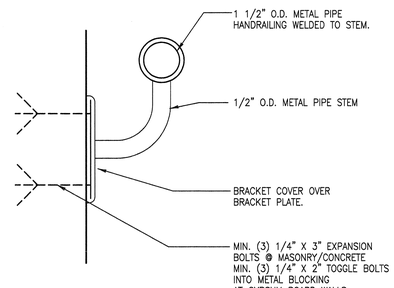
23 AS501 PIPE RAIL ANCHORING DETAIL
SCALE: NOT TO SCALE



22 AS501 DRY SUMP CATCH BASIN
SCALE: NOT TO SCALE

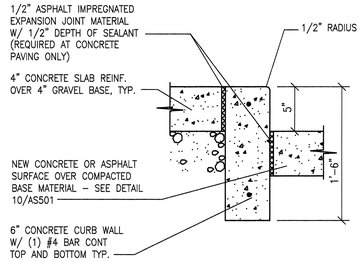


21 AS501 STAIR NOSING SECTION
SCALE: NOT TO SCALE

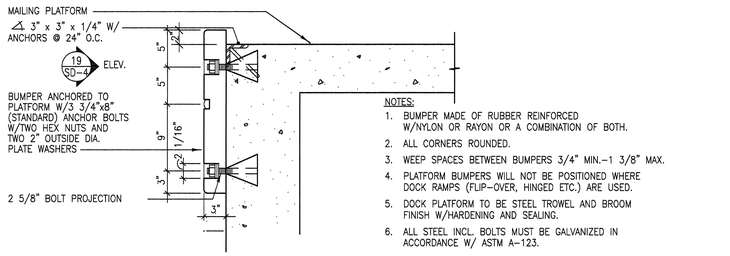


20 AS501 HANDRAIL MOUNTING DETAIL
SCALE: NOT TO SCALE

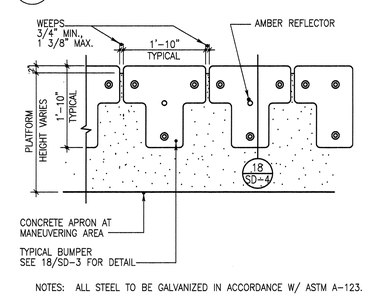
16 AS501 NOT USED
SCALE: NOT TO SCALE



17 AS501 CONCRETE CURB DETAIL
SCALE: NOT TO SCALE

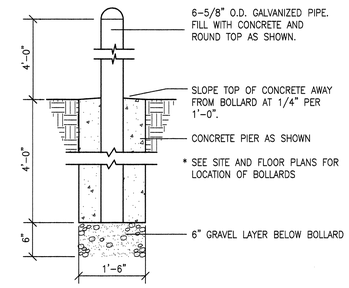


18 AS501 DOCK BUMPER SECTION
SCALE: NOT TO SCALE

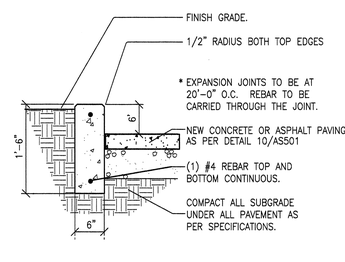


NOTES: ALL STEEL TO BE GALVANIZED IN ACCORDANCE W/ ASTM A-123.

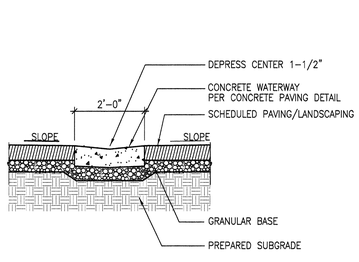
19 AS501 DOCK BUMPER ELEVATION
SCALE: NOT TO SCALE



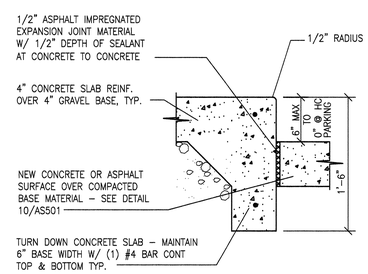
15 AS501 NOT USED
SCALE: NOT TO SCALE



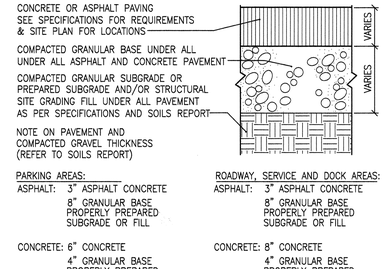
14 AS501 BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



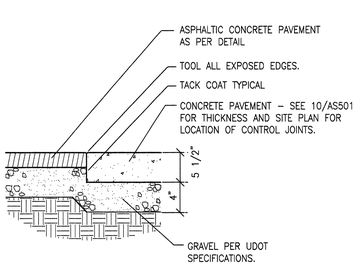
13 AS501 EXPANSION JOINT DETAIL (EJ)
SCALE: 1-1/2" = 1'-0"



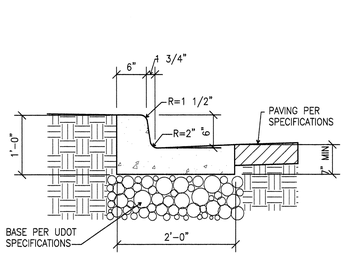
12 AS501 CONTROL JOINT DETAIL (CJ)
SCALE: 1-1/2" = 1'-0"



11 AS501 CONCRETE SIDEWALK DETAIL
SCALE: 1" = 1'-0"



5 AS501 CONCRETE/ASPHALT EDGE
SCALE: NOT TO SCALE



6 AS501 CURB AND GUTTER DETAIL
SCALE: NOT TO SCALE

7 AS501 CONCRETE CURB DETAIL
SCALE: 1" = 1'-0"

8 AS501 CONCRETE WATERWAY DETAIL
SCALE: NOT TO SCALE

9 AS501 CURB TO SIDEWALK DETAIL
SCALE: 1-1/2" = 1'-0"

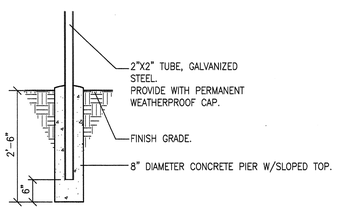
PARKING AREAS:
ASPHALT: 3" ASPHALT CONCRETE
8" GRANULAR BASE
PROPERLY PREPARED
SUBGRADE OR FILL

CONCRETE: 6" CONCRETE
4" GRANULAR BASE
PROPERLY PREPARED
SUBGRADE OR FILL

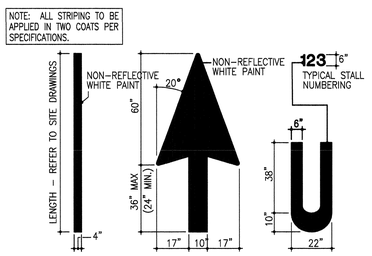
ROADWAY, SERVICE AND DOCK AREAS:
ASPHALT: 3" ASPHALT CONCRETE
8" GRANULAR BASE
PROPERLY PREPARED
SUBGRADE OR FILL

CONCRETE: 8" CONCRETE
4" GRANULAR BASE
PROPERLY PREPARED
SUBGRADE OR FILL

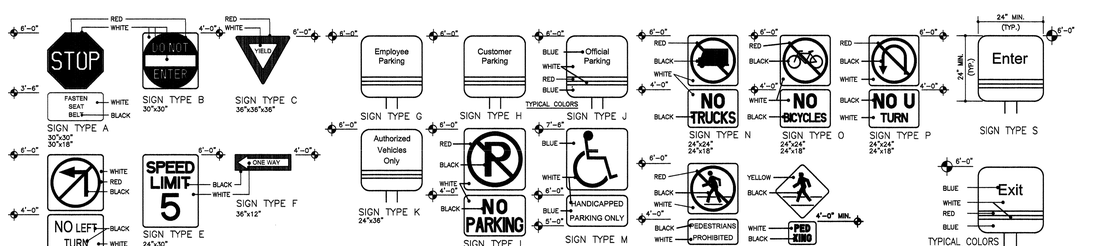
10 AS501 PAVEMENT SECTIONS
SCALE: 3" = 1'-0"



4 AS501 EXTERIOR SIGNAGE SUPPORT
SCALE: 3/4" = 1'-0"



3 AS501 PAVEMENT MARKINGS
SCALE: NOT TO SCALE



NOTES: 1. SET POSTS IN CONCRETE TO A MINIMUM DEPTH OF 2'-0". USE A SQUARE 2"x2" TUBE OF 1/8" ALUM. FOR SIGN POSTS. FABRICATE SIGN PANELS OF 1/8" ALUMINUM. PAINT POST(S) POSTAL BLUE (MATTE FINISH) AND PROVIDE WITH PERMANENT WEATHERPROOF ALUMINUM CAP (SEE 4/S0-3). PROVIDE DOUBLE POSTS AT ALL BACK-TO-BACK SIGNS.

2 AS501 EXTERIOR TRAFFIC SIGNAGE
SCALE: NOT TO SCALE

1 AS501 NOT USED
SCALE: NONE

REDWOOD ROAD ABC - REMODEL AND EXPANSION

DEPT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

SITE DETAILS

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH
FRANK N. MURDOCK
124498
REGISTERED ARCHITECT
6/15/07

REVISION # DATE:

DFCM PROJECT NO.:
06233030
CONST. DOC.
FILE NAME: ABCRW-AS501
PLOT SCALE: 1:240
DRAWN BY: STAFF
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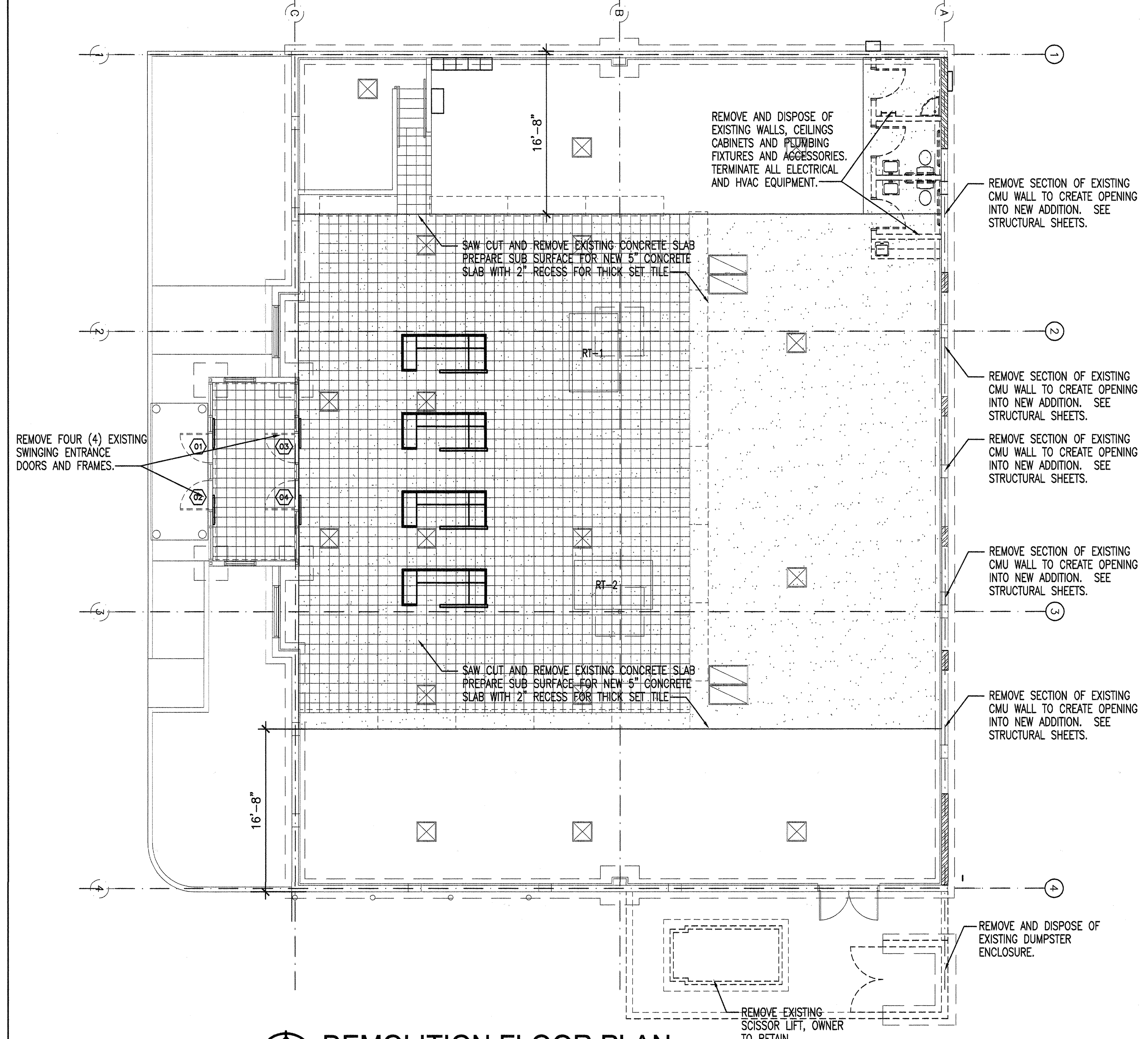
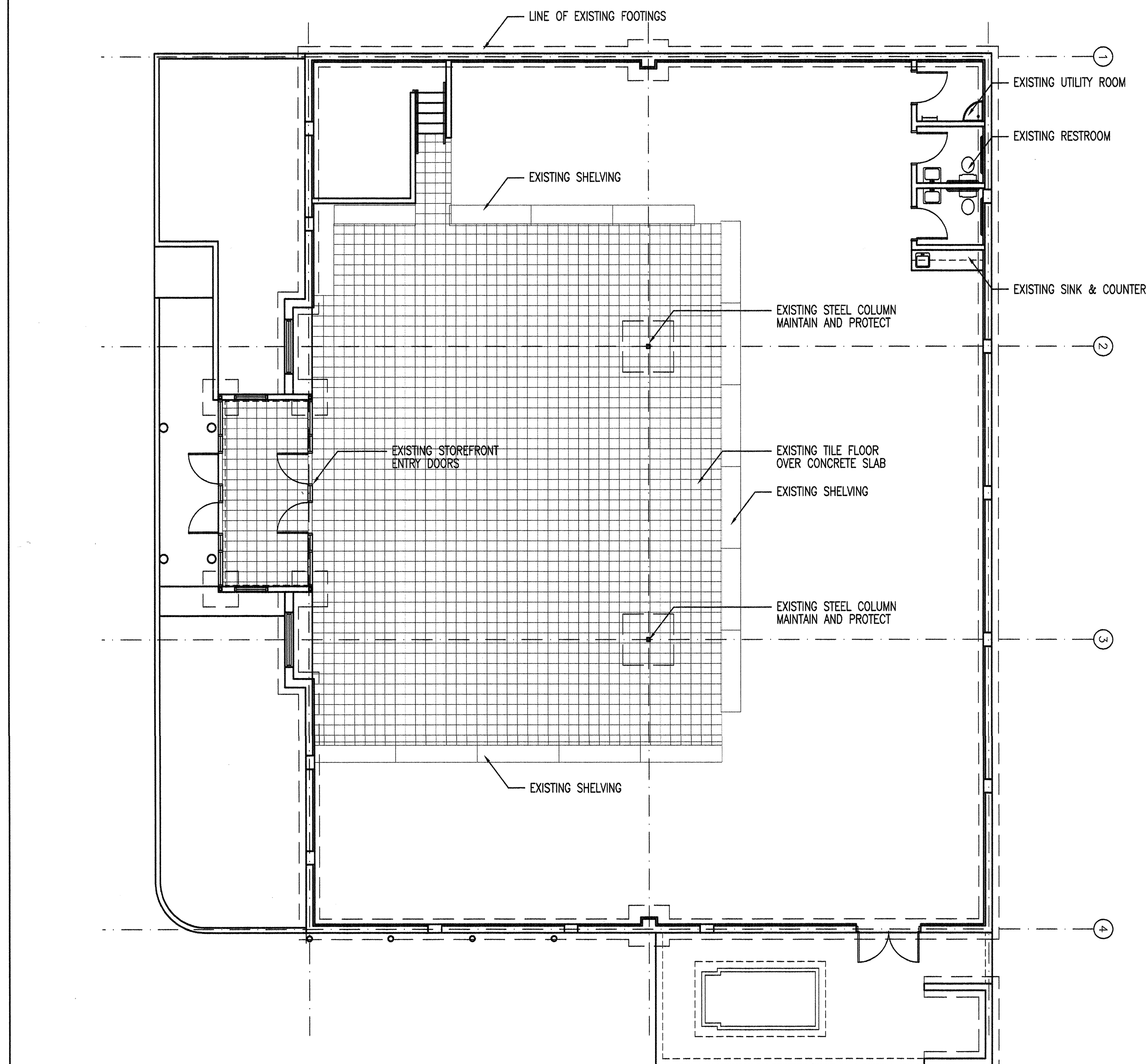
AS
501



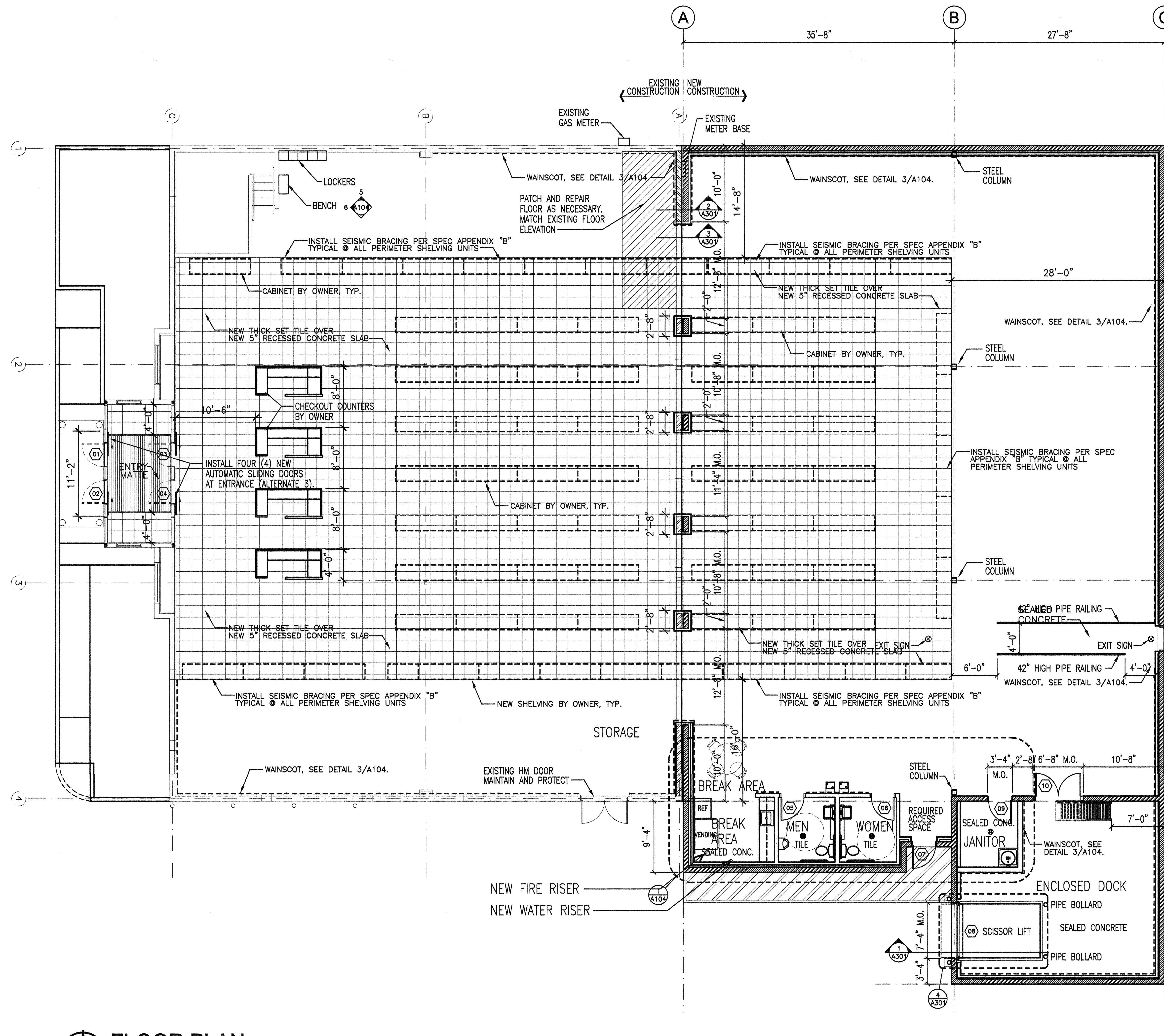
DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"



EXISTING FLOOR PLAN

SCALE: 1/8" = 1'-0"



FLOOR PLAN

SCALE: 1/8" = 1'-0"

NOTES

1. PROVIDE SIGNAGE ABOVE ENTRY DOORS STATING "THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS".
2. PROVIDE SIGNAGE DESIGNATING "PUBLIC RESTROOMS" AT LOCATION TO BE DETERMINED BY ARCHITECT.
3. CONTRACTOR TO PROVIDE AND INSTALL 25 L.F. OF CHAIR RAIL (INPRO CORP., NORTHERN HARDWOODS CR2 OR EQUAL) IN LOCATIONS AND AT HEIGHTS TO BE DETERMINED BY THE ARCHITECT.

REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

FLOOR PLANS

STATE OF UTAH · FRANK N. MURDOCK, JR. · 124498 · LICENSED ARCHITECT

REVISION # DATE:

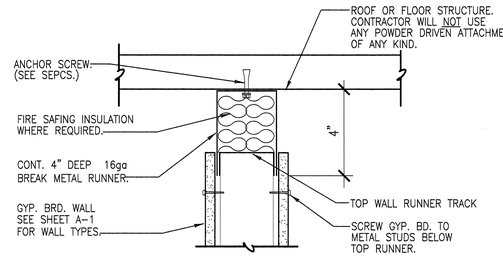
DFCM PROJECT NO.:
06233030
CONST DOC
FILE NAME: ABCR-A101
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: JUNE 2007

A
101

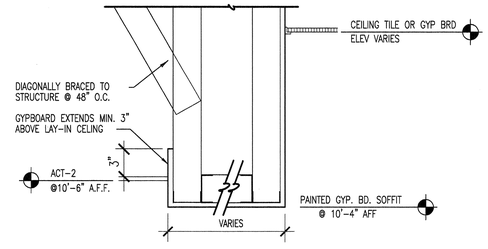
REFLECTED CEILING PLAN LEGEND

- 4' WALL MOUNTED LIGHTING FIXTURE
- 2' SURFACE MOUNTED LIGHTING FIXTURE
- SECURITY LIGHT
- 2' X 4' FLUORESCENT LIGHTING FIXTURE
- RECESSED LIGHTING FIXTURE
- 8' SUSPENDED LIGHTING FIXTURE
- UNIT HEATER
- TRACK LIGHT
- 8' SUSPENDED INDIRECT LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE
- 2'X4' SUSPENDED ACOUSTICAL CEILING PROVIDE SEISMIC BRACING – SEE 1/A102
- METAL SOFFIT PANEL
- RETURN REGISTER
- SUPPLY DIFFUSER
- EXHAUST FAN
- GYPSUM BOARD SOFFIT
- (E.S.) PAINTED EXPOSED STRUCTURE HEIGHT MAY VARY
- (MSP) METAL SOFFIT PANEL
- (AC) 2'X2' SUSPENDED ACOUSTICAL CEILING
- (GB) GYPSUM BOARD CEILING
- (SUSPGB) SUSPENDED GYPSUM BOARD CEILING
- (PMSP) EXTERIOR GYPSUM SOFFET BOARD CEILING UNDER PREFINISHED METAL SOFFET PANEL
- (SSS) SYNTHETIC STUCCO SOFFET
- (0'-0") CEILING OR SOFFIT HEIGHT (HEIGHT MEASURED FROM FINISHED FLOOR ELEV.: 0'-0")

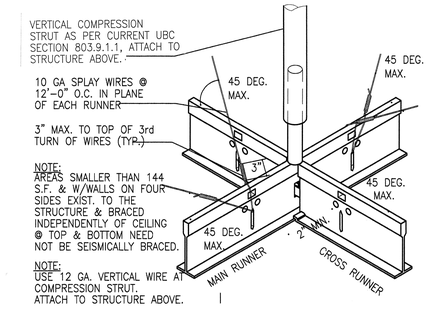
NOTE: CEILING TO INSTALLED PER SECTION 1621 OT THE 2006 IBC OR BRACED PER 1997 UBC STANDARDS, SECTION 25-2.



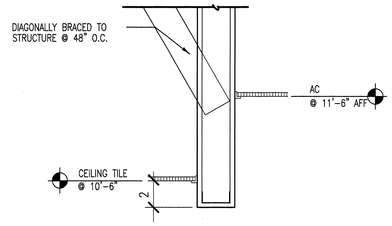
4 A102 SLIP JOINT DETAIL
SCALE: NOT TO SCALE



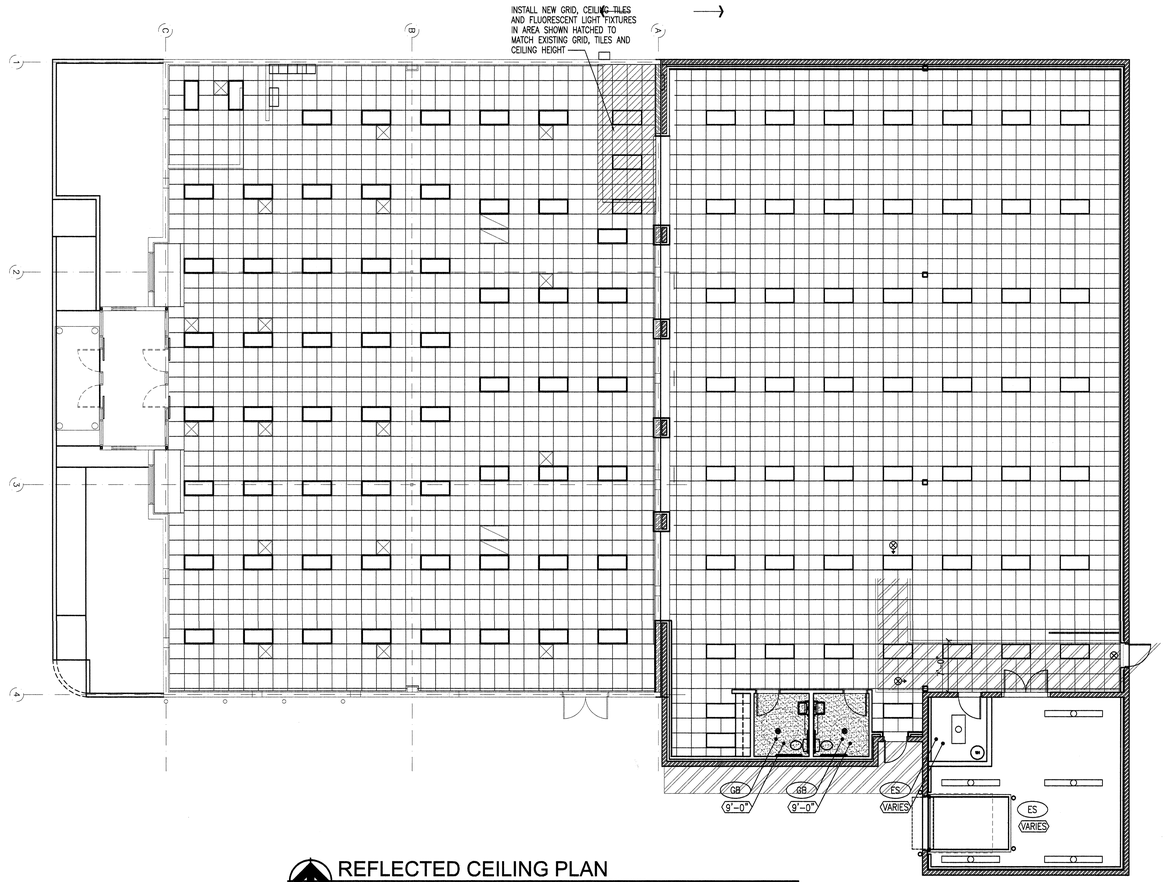
3 A102 CEILING DROP DETAIL
SCALE: NOT TO SCALE



2 A102 SEISMIC BRACING DETAIL
SCALE: NOT TO SCALE



1 A102 CEILING DROP DETAIL
SCALE: NOT TO SCALE



REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"
0 2' 4' 8' 16'

REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX: (801) 532-4220

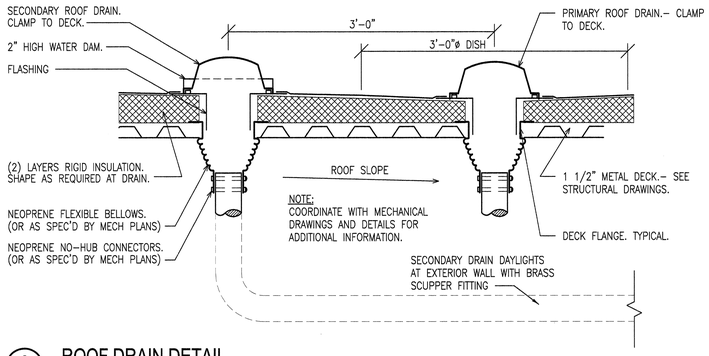
REFLECTED CEILING PLANS

STATE OF UTAH — FRANK N. MURDOCK — 4417 — LICENSED ARCHITECT

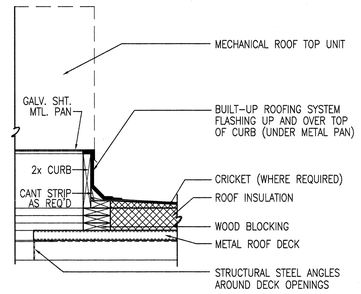
REVISION # DATE:

DFCM PROJECT NO.:
06233030
CONST DOC
FILE NAME: ABCR-A102
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MAY 2007

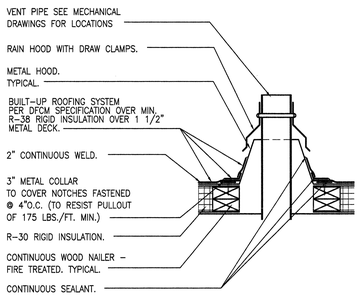
A
102



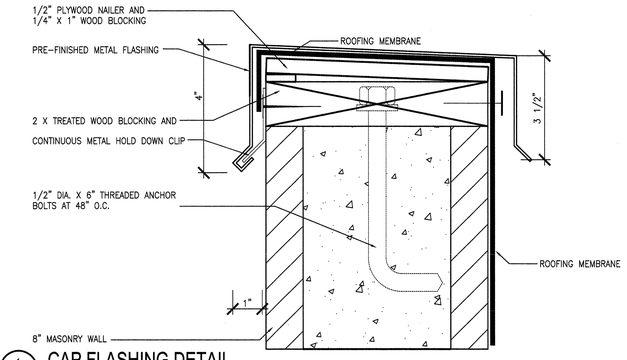
8 A103 ROOF DRAIN DETAIL
SCALE: NOT TO SCALE



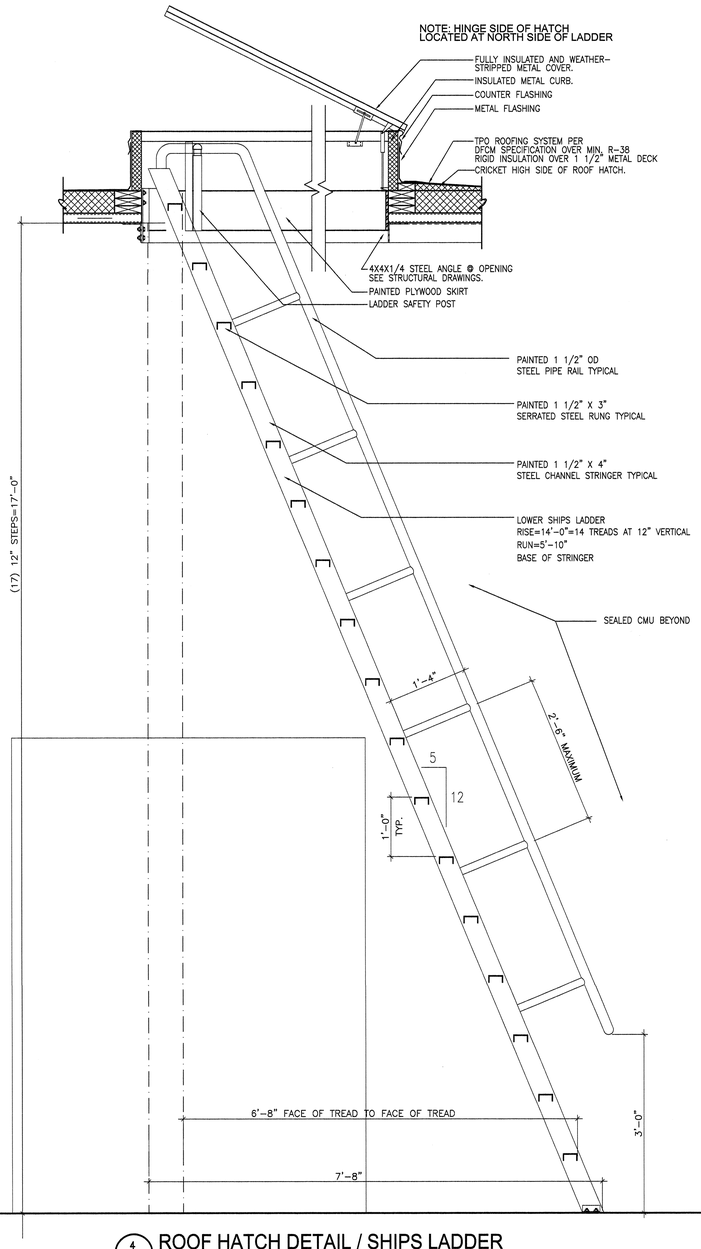
3 A103 ROOF CURB DETAIL
SCALE 1" = 1' - 0"



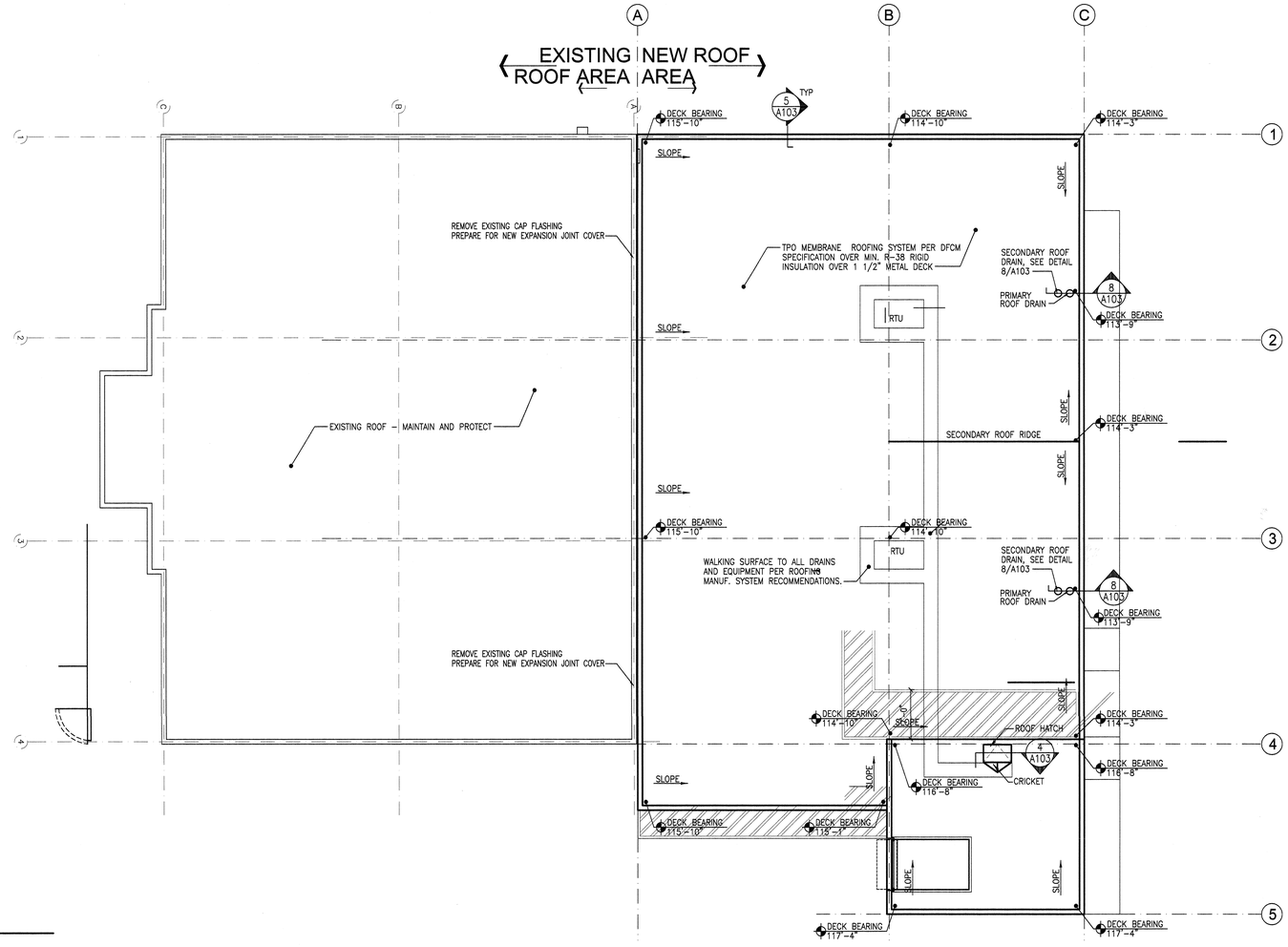
2 A103 VENT PIPE DETAIL
SCALE 3" = 1' - 0"



1 A103 CAP FLASHING DETAIL
SCALE 1/2" = 1' - 0"



4 A103 ROOF HATCH DETAIL / SHIPS LADDER
SCALE: 3/4" = 1'-0"
0 3" 6" 12" 24"



ROOF PLAN
SCALE: 1/8" = 1'-0"
0 2' 4' 8' 16'

REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

ROOF PLAN AND DETAILS

FRANK N MURDOCK JR ■ Architect & Associates
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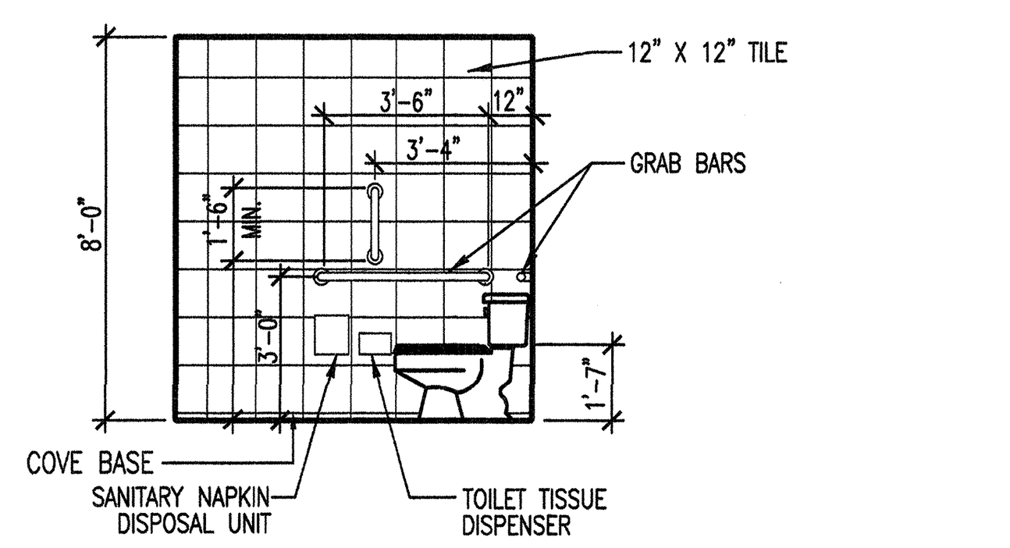
STATE OF UTAH FRANK N. MURDOCK 172138 REGISTERED ARCHITECT

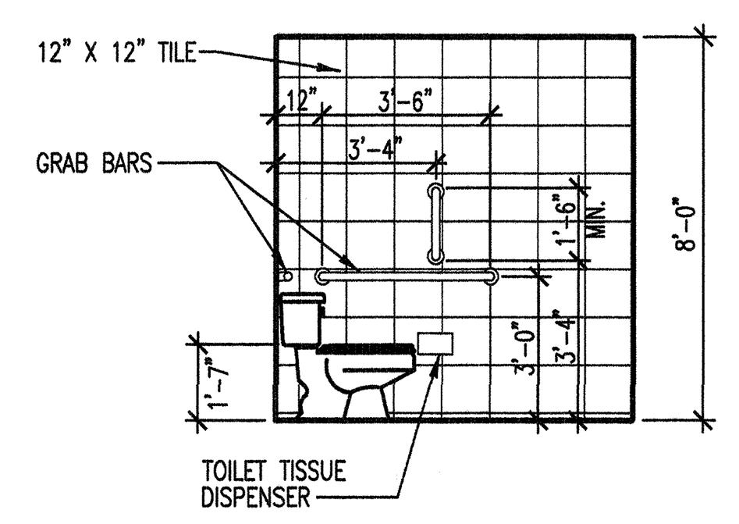
REVISION #	DATE:

DFCM PROJECT NO.: 06233030
CONST DOC
FILE NAME: ABCR-A103
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MAY 2007

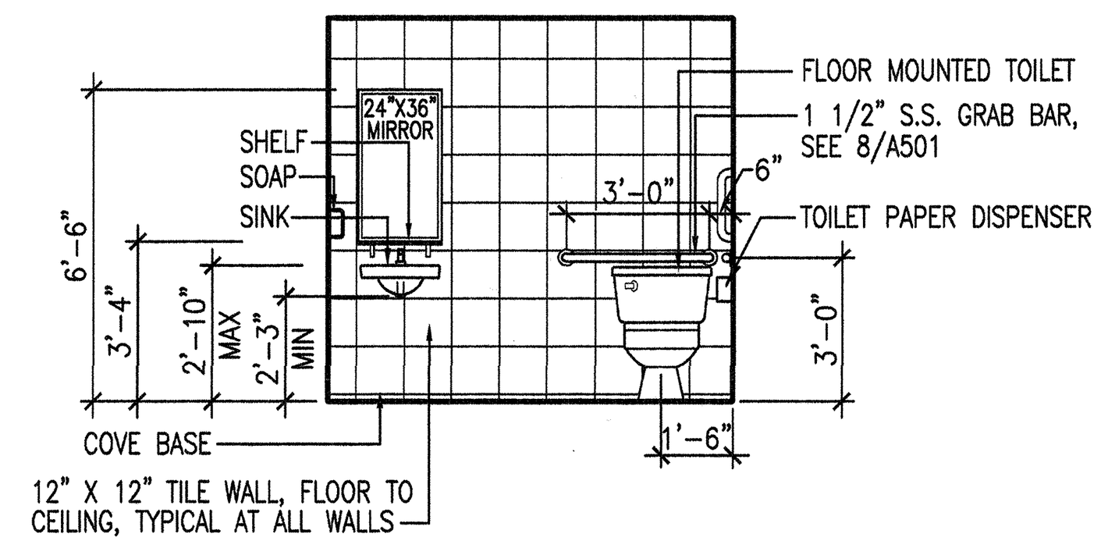
A 103



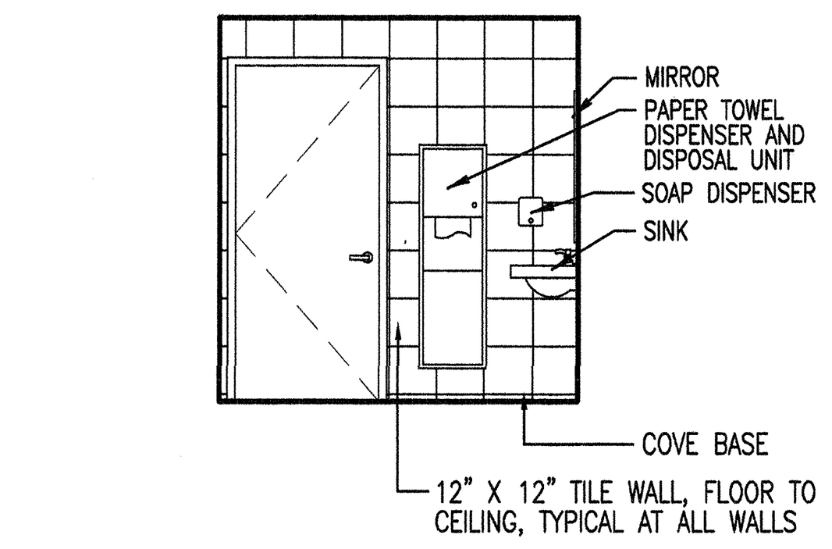
9 / A104 **ELEV. AT WOMEN'S RESTROOM**
SCALE: 1/4" = 1'-0"



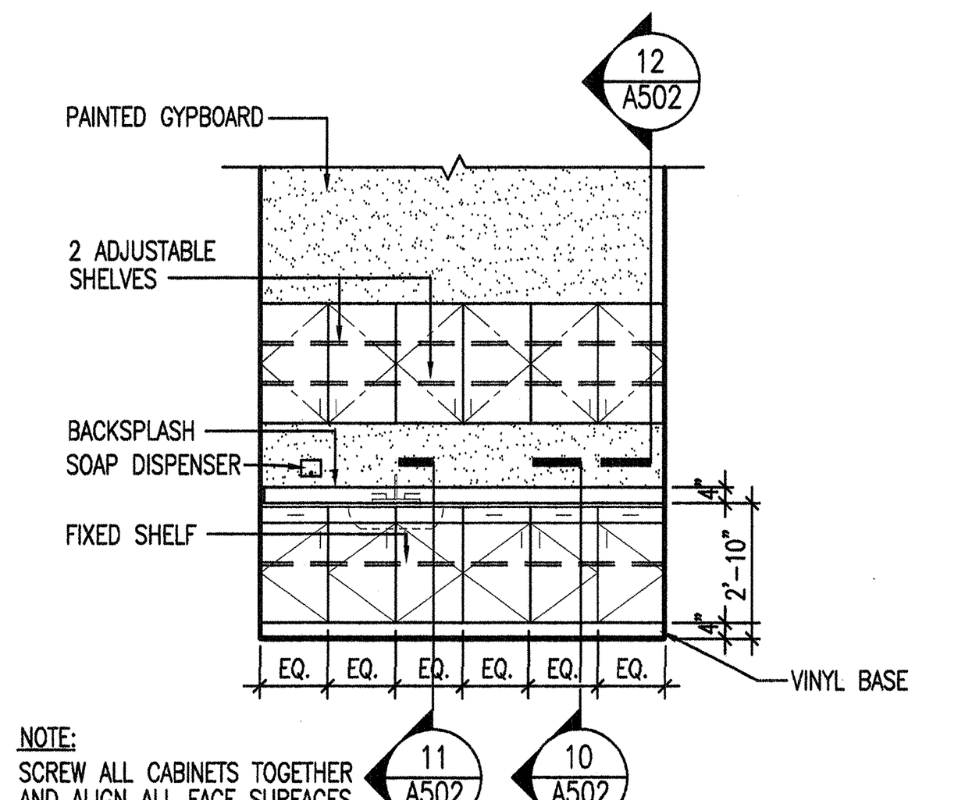
10 / A104 **ELEV. AT MEN'S RESTROOM**
SCALE: 1/4" = 1'-0"



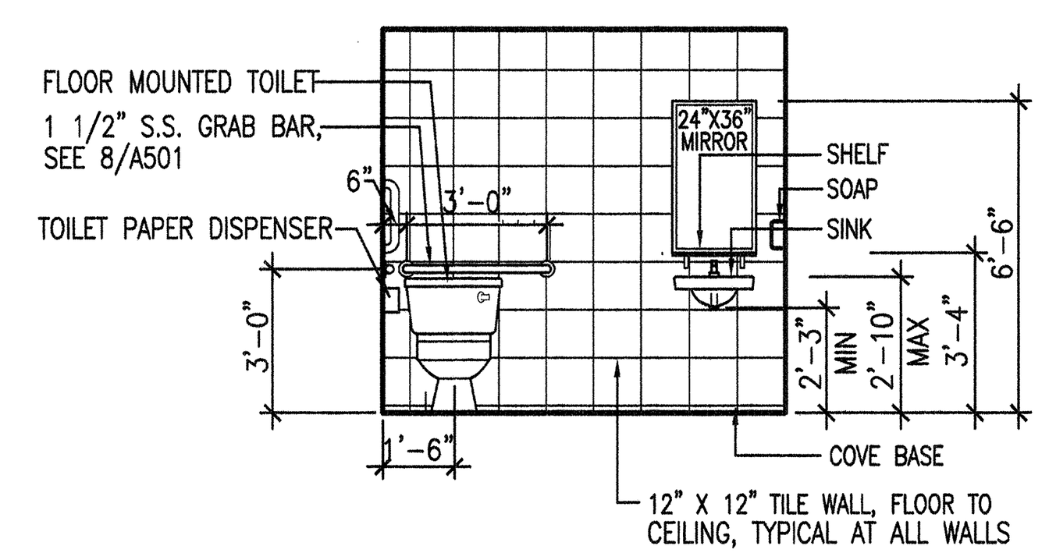
11 / A104 **ELEV. AT MEN'S RESTROOM**
SCALE: 1/4" = 1'-0"



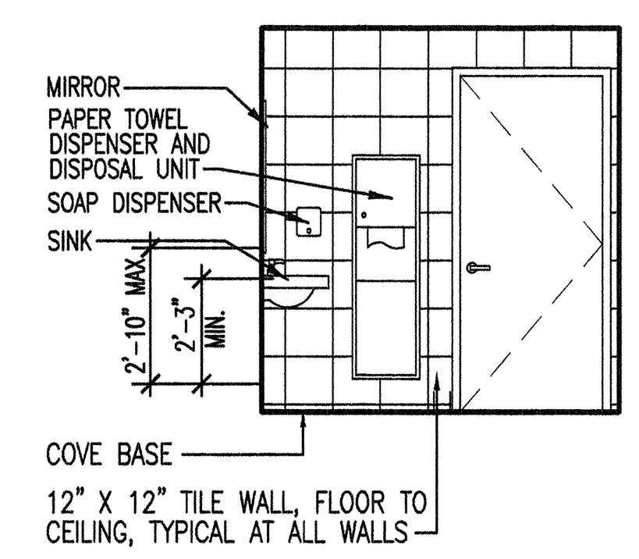
12 / A104 **ELEV. AT MEN'S RESTROOM**
SCALE: 1/4" = 1'-0"



13 / A104 **ELEV. AT LUNCH COUNTER**
SCALE: 1/4" = 1'-0"



8 / A104 **ELEV. AT WOMEN'S RESTROOM**
SCALE: 1/4" = 1'-0"



7 / A104 **ELEV. AT WOMEN'S RESTROOM**
SCALE: 1/4" = 1'-0"

NOTE: OWNER TO PROVIDE AND INSTALL ALL SOAP DISPENSERS, SANITARY NAPKIN DISPOSAL UNIT, PAPER TOWEL DISPENSER AND WASTE UNITS AND TOILET PAPER DISPENSERS.

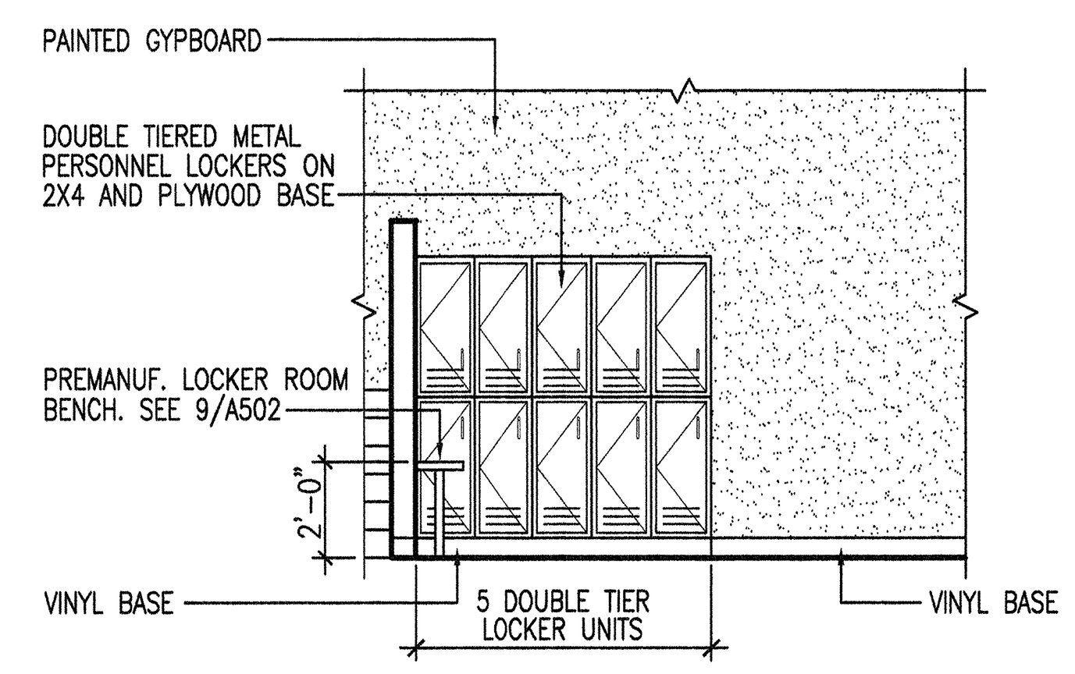
WALL TYPE

[1]

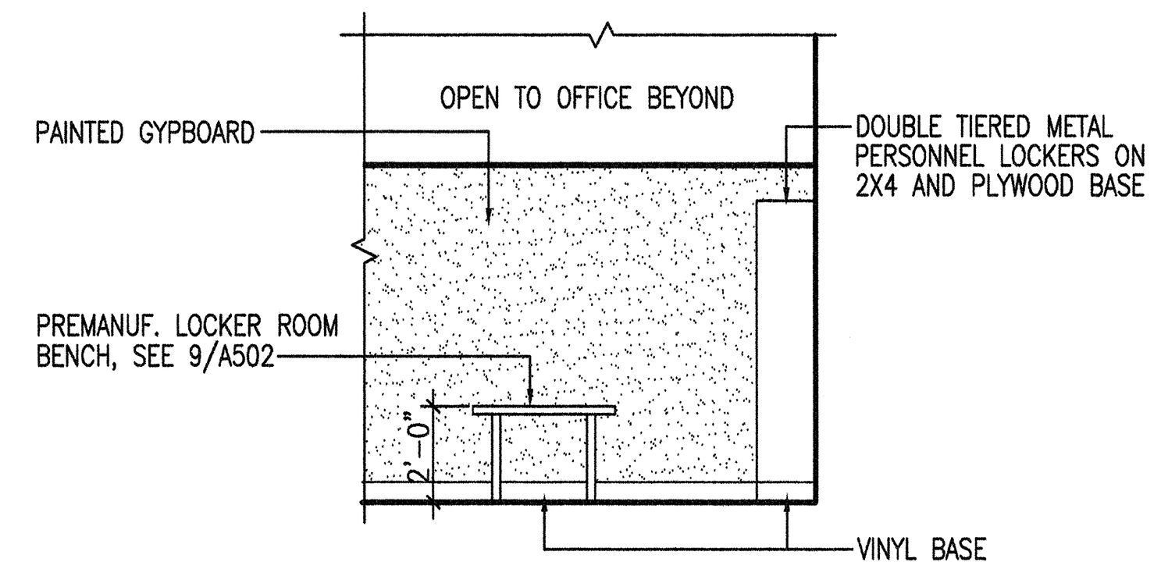
BRACE TO ROOF DECK @ 4' O.C.

3 5/8" STUD PARTITION WALL:
PAINTED 5/8" GYP. BD. BOTH SIDES OF 3 5/8" METAL STUDS @ 16" ON CENTER, FROM FLOOR TO ROOF DECK OR TO 6" ABOVE CEILING WHERE CEILING OCCURS. PROVIDE DIAGONAL BRACING TO ROOF DECK @ 4' O.C. WHERE CEILING OCCURS. GYP BD @ WALL TO STOP @ GYP BD CEILING WHERE OCCURS.
PROVIDE TILE WAINSCOT AS SHOWN ON PLANS.
INSTALL WATER-RESISTANT GYP BD @ ALL TOILET ROOMS.
PROVIDE PROTECTIVE PARTICLE BOARD WAINSCOT AS SHOWN ON FLOOR PLANS, DETAIL 3/A104.

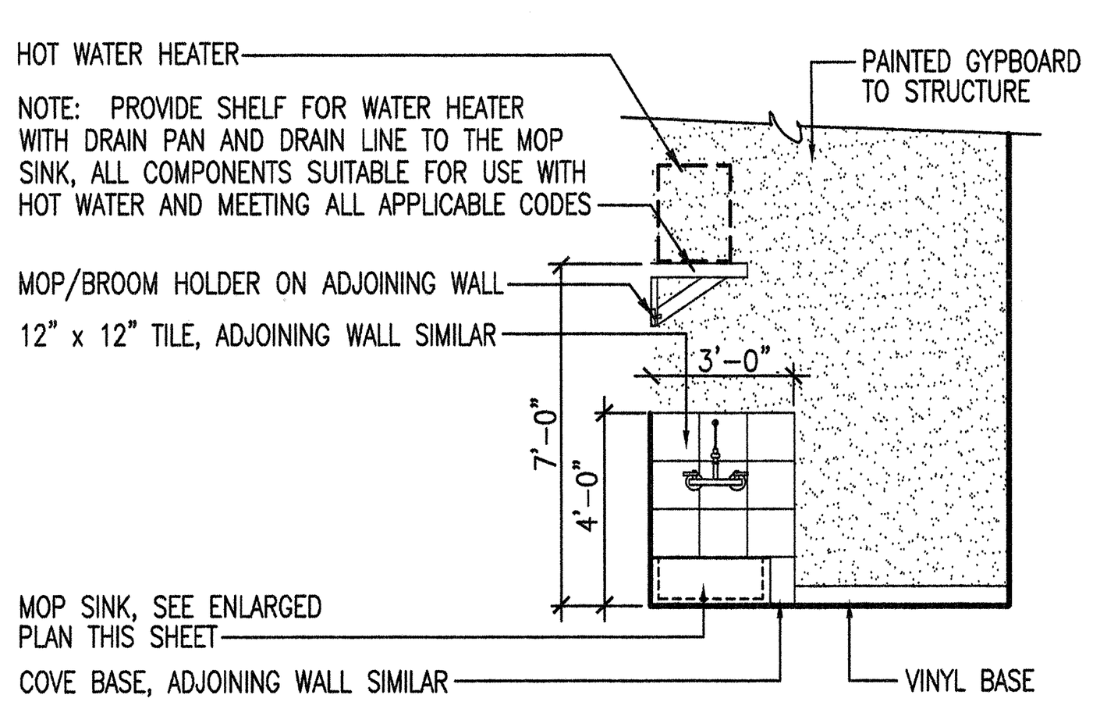
— — — — — DASHED LINE REPRESENTS PARTICLE BOARD WAINSCOT, SEE DETAIL 3/A104.



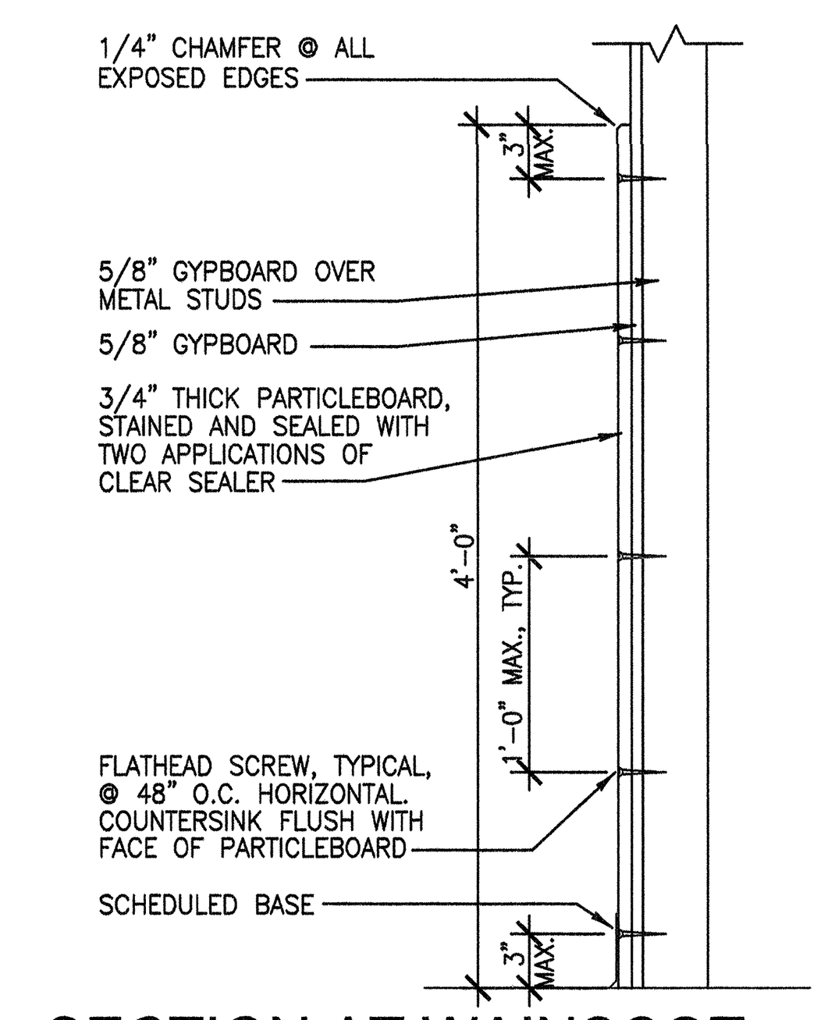
5 / A104 **ELEVATION AT LOCKERS/BENCH**
SCALE: 1/4" = 1'-0"



6 / A104 **ELEVATION AT LOCKERS/BENCH**
SCALE: 1/4" = 1'-0"

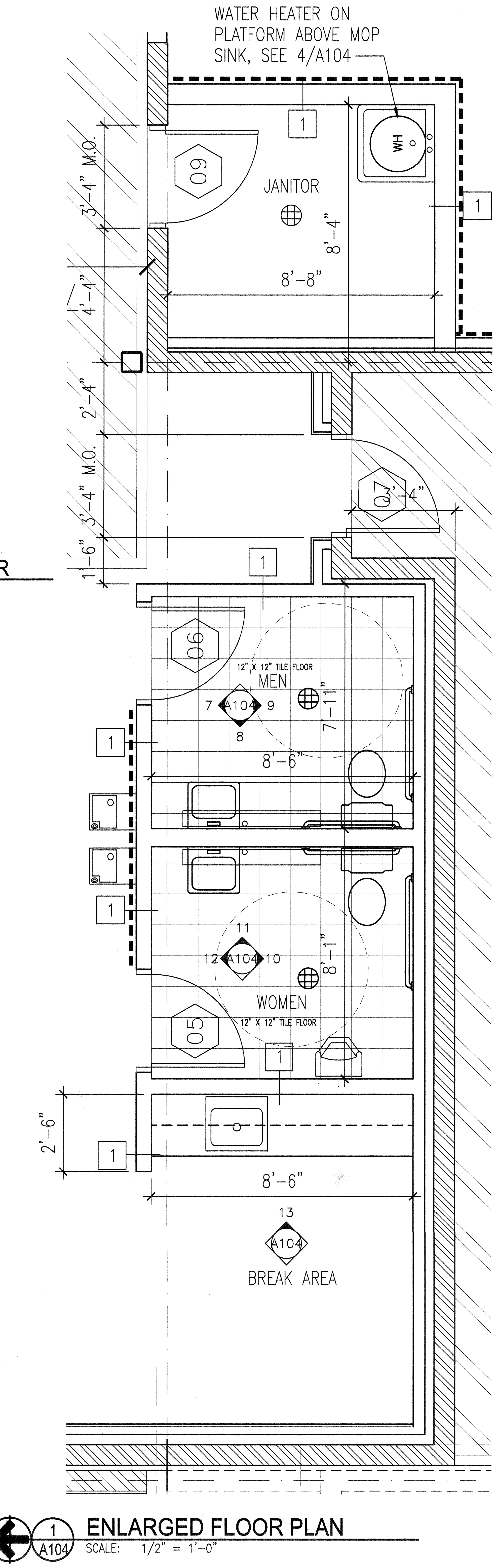


4 / A104 **ELEV. AT JANITOR'S ROOM**
SCALE: 1/4" = 1'-0"



3 / A104 **SECTION AT WAINSCOT**
SCALE: NOT TO SCALE

2 / A104 **NOT USED**
SCALE: 1/4" = 1'-0"



1 / A104 **ENLARGED FLOOR PLAN**
SCALE: 1/2" = 1'-0"

REDWOOD ROAD ABC - REMODEL AND EXPANSION
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS

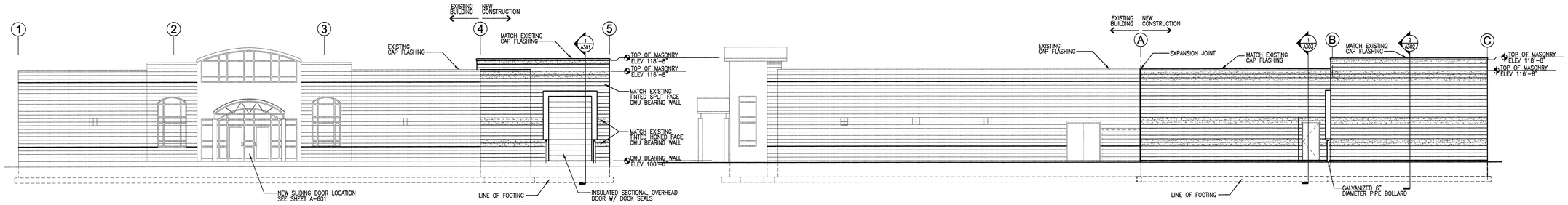
FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH — FRANK N. MURDOCK — 124488 — 6/4/07 — LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.: 06233030
CONSTR. DOC.
FILE NAME: ABCR-A104
PLOT SCALE: 1:24
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MAY 2007

A 104

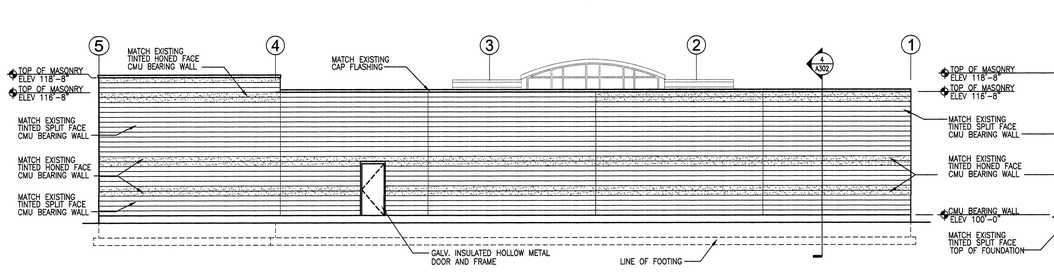


WEST EXTERIOR ELEVATION

SCALE: 1/8" = 1'-0"

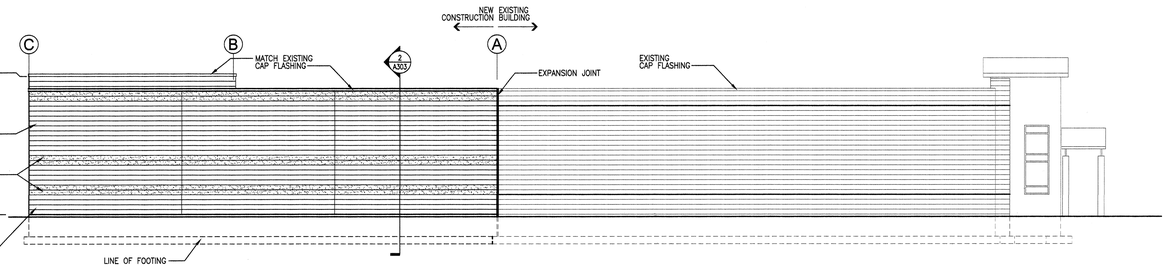
SOUTH EXTERIOR ELEVATION

SCALE: 1/8" = 1'-0"



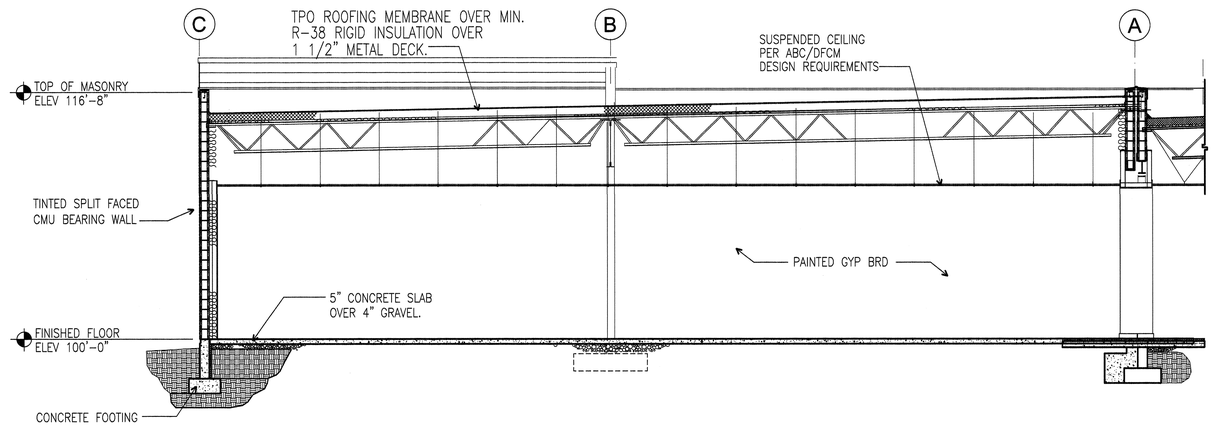
EAST EXTERIOR ELEVATION

SCALE: 1/8" = 1'-0"



NORTH EXTERIOR ELEVATION

SCALE: 1/8" = 1'-0"



EAST WEST BUILDING SECTION

SCALE: 1/4" = 1'-0"

REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

EXTERIOR ELEVATIONS & BUILDING SECTION

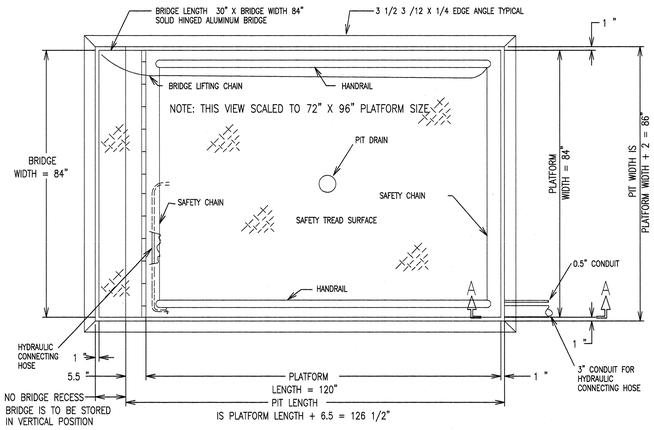
FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH FRANK N. MURDOCK 124498 LICENSED ARCHITECT

REVISION #	DATE:

DFCM PROJECT NO.:
06233030
CONST DOC
FILE NAME: ABCR-A201
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MAY 2007

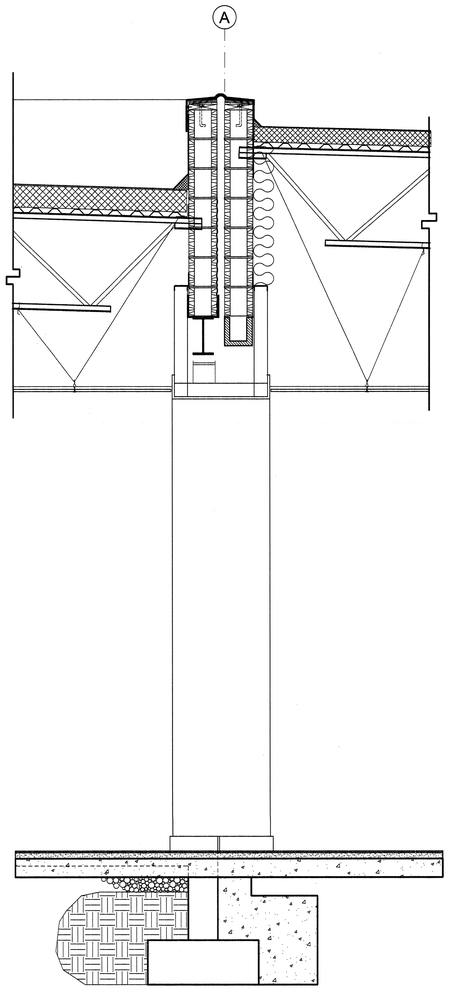
A
201



4 / A301 SCISSOR LIFT PLAN

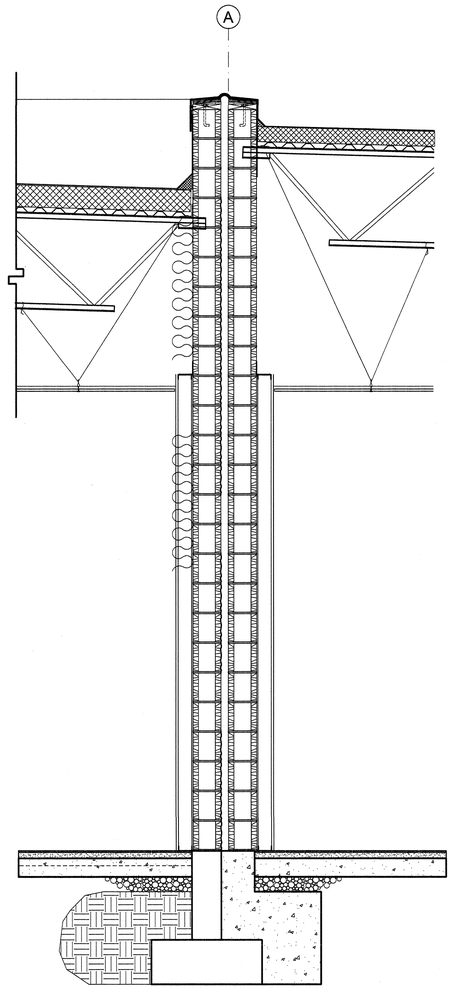
SCALE: 3/4" = 1'-0"

0 2' 4' 8' 16'



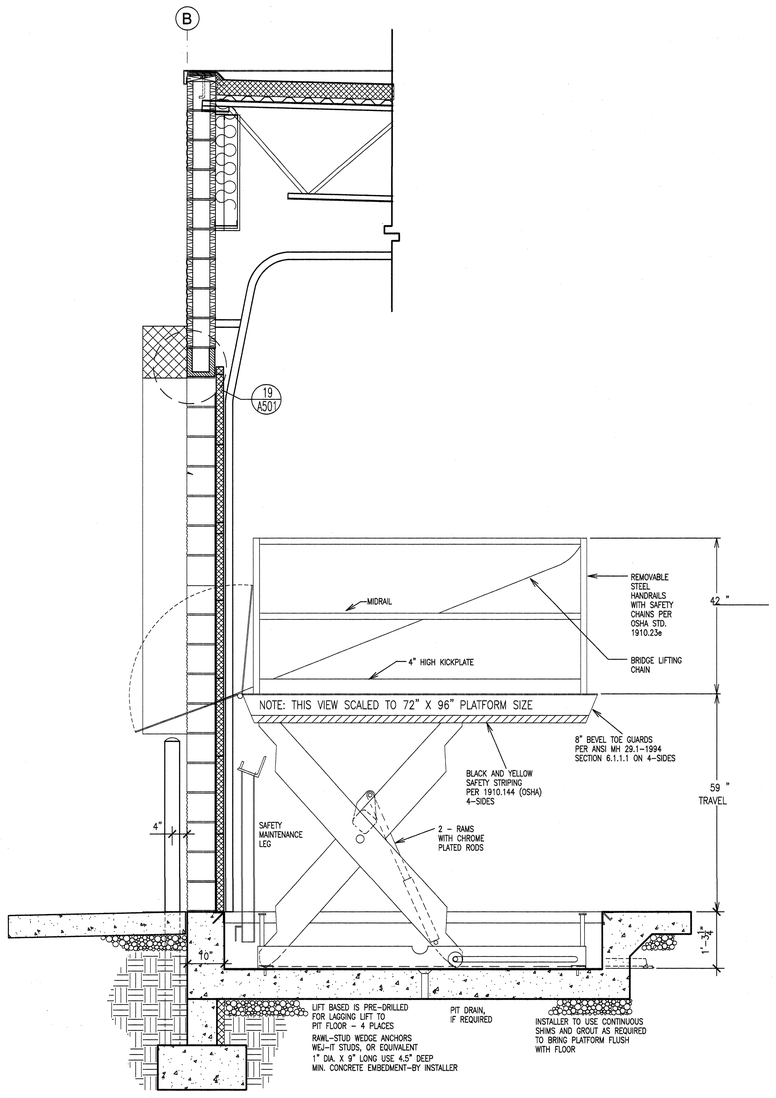
3 / A301 WALL SECTION @ EXPANSION JOINT

SCALE: 3/4" = 1'-0"



2 / A301 WALL SECTION @ EXPANSION JOINT

SCALE: 3/4" = 1'-0"



1 / A301 WALL SECTION @ SCISSOR LIFT

SCALE: 3/4" = 1'-0"

REDWOOD ROAD ABC - REMODEL AND EXPANSION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

WALL SECTIONS AND DETAILS

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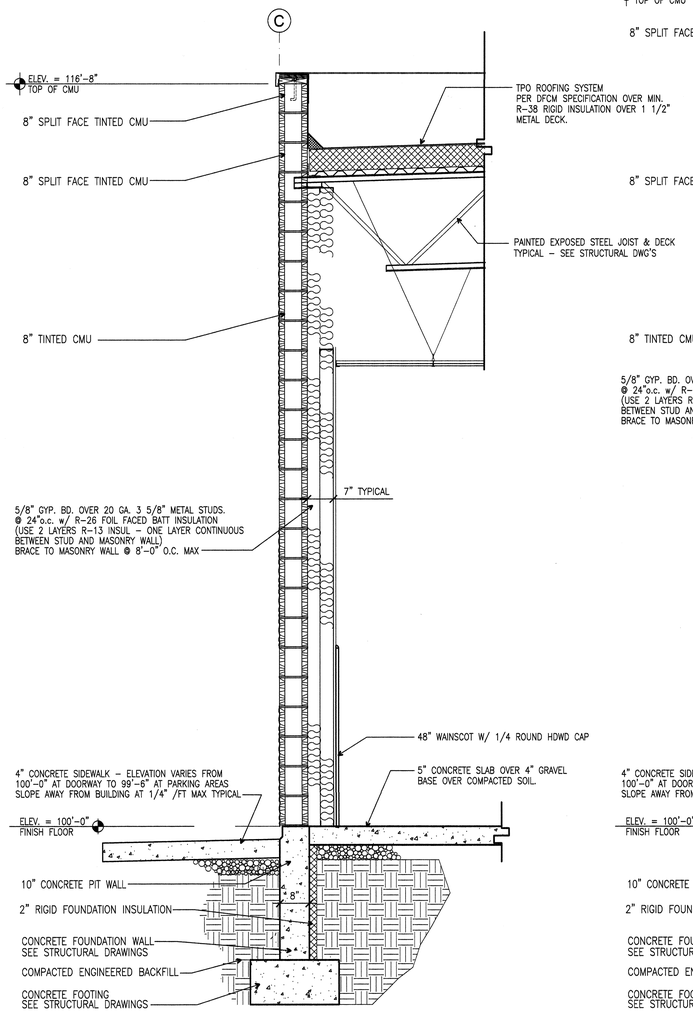
STATE OF UTAH · FRANK N. MURDOCK · 124498 · LICENSED ARCHITECT

REVISION #	DATE:

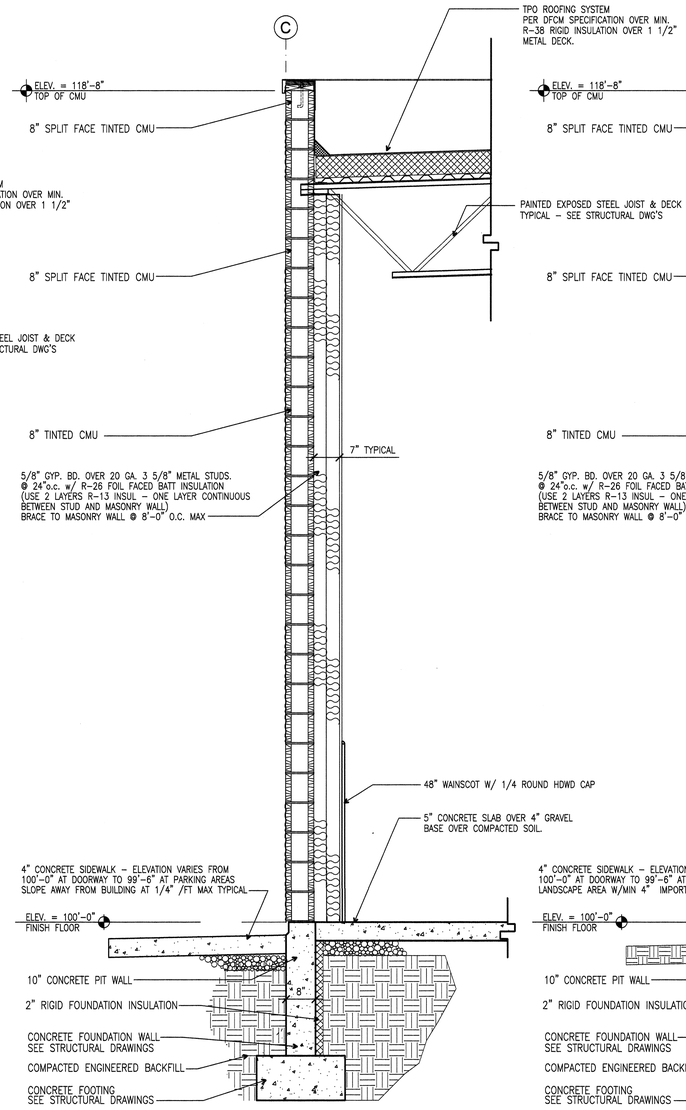
DFCM PROJECT NO.:
06233030
CONSTR DOC
FILE NAME: ABCR-A301
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MAY 2007

A
301



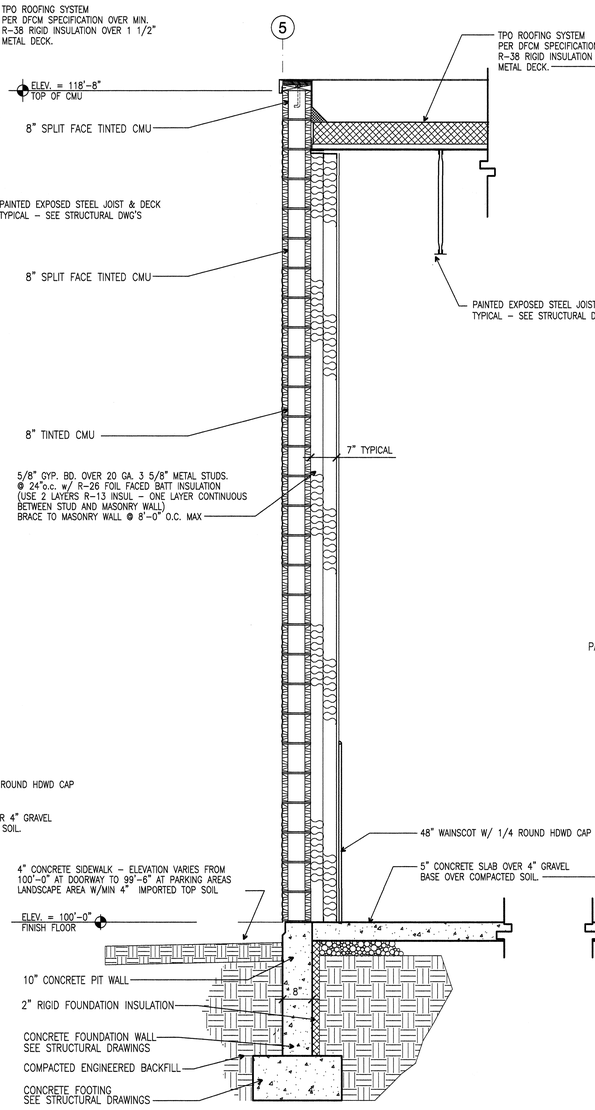
3/A301 WALL SECTION @ EXPANSION JOINT

SCALE: 3/4" = 1'-0"



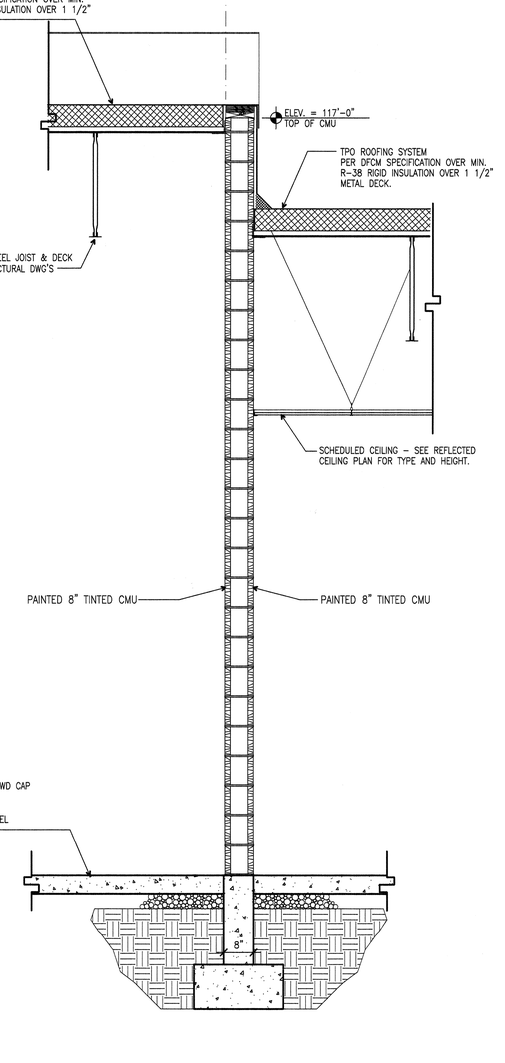
2/A301 WALL SECTION @ EXPANSION JOINT

SCALE: 3/4" = 1'-0"



1/A301 WALL SECTION @ GRID "3"

SCALE: 3/4" = 1'-0"



REMODEL AND EXPANSION

REDWOOD ROAD ABC - REMODEL AND EXPANSION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

WALL SECTIONS AND DETAILS

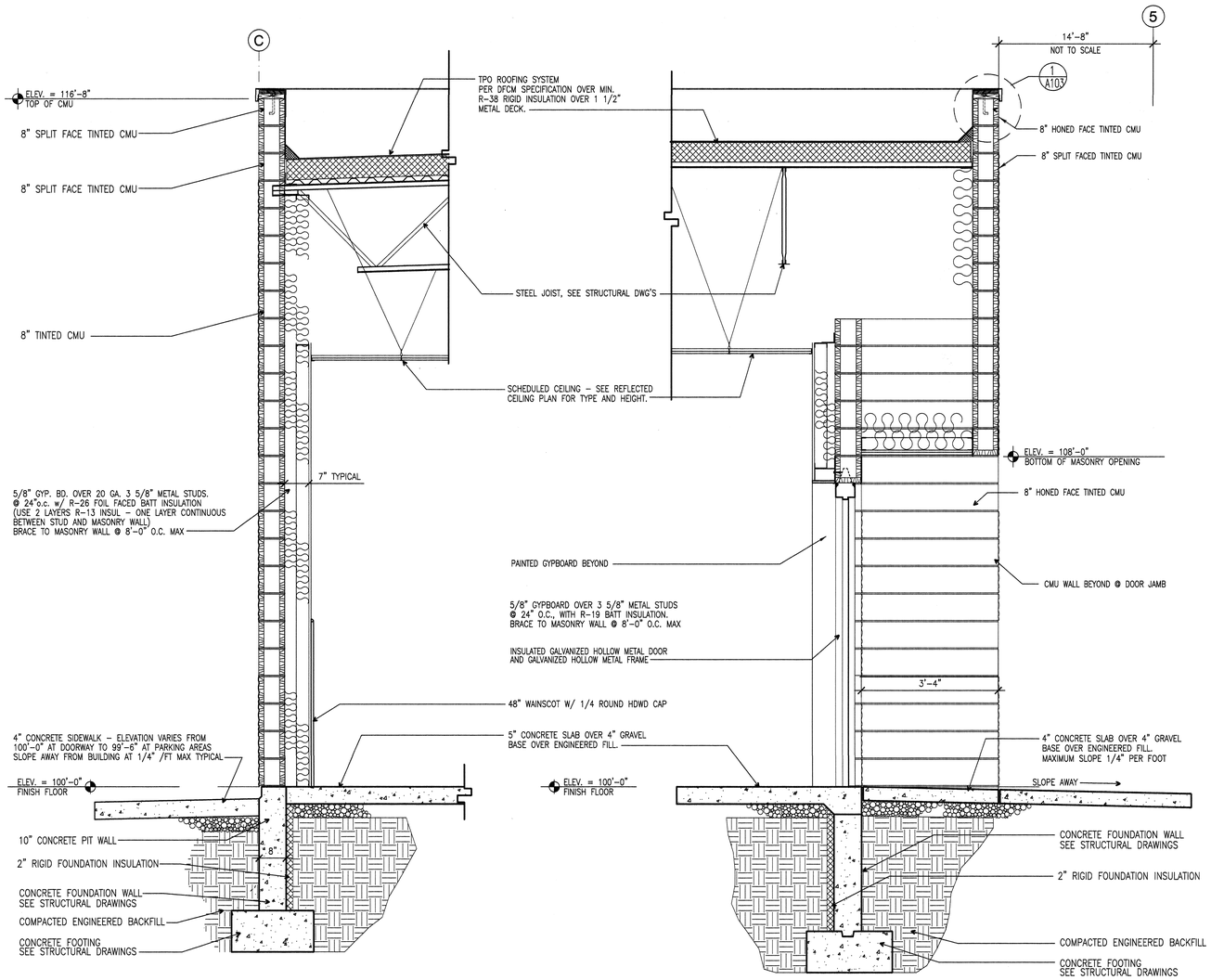
FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH
FRANK N. MURDOCK
124198
REGISTERED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
06233030
CONSTR DOC
FILE NAME: ABCR-A302
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MAY 2007

A
302



3 / A301 WALL SECTION @ EXPANSION JOINT

SCALE: 3/4" = 1'-0"

REDWOOD ROAD ABC - REMODEL AND EXPANSION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

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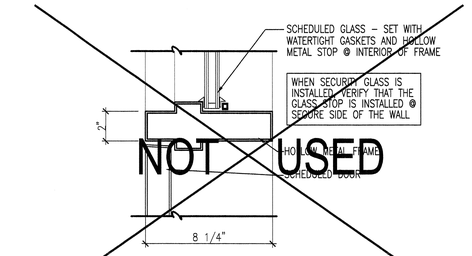
WALL SECTIONS AND DETAILS

STATE OF UTAH
FRANK N. MURDOCK
12498
LICENSED ARCHITECT

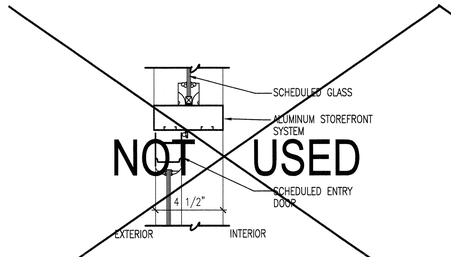
REVISION #	DATE:

DFCM PROJECT NO.:
06233030
CONSTR DOC
FILE NAME: ABCR-A303
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MAY 2007

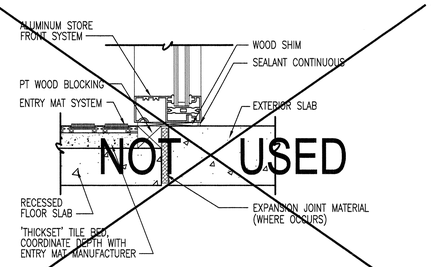
A
303



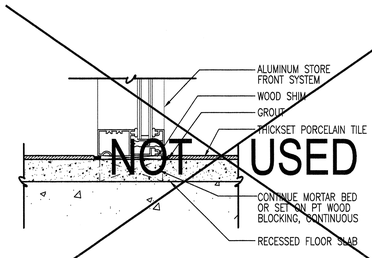
25 A501 HM DOOR HEAD/TRANSOM SILL
SCALE: NOT TO SCALE



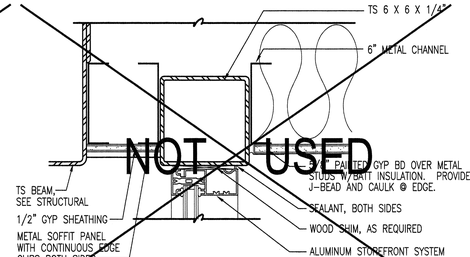
24 A501 STOREFRONT DOOR HEAD/TRANSOM SILL
SCALE: NOT TO SCALE



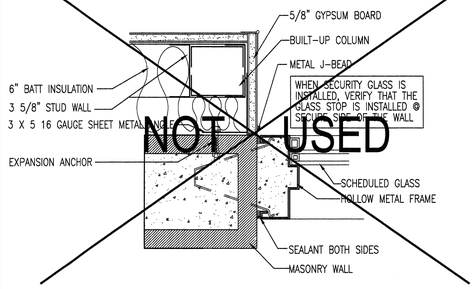
23 A501 STOREFRONT WINDOW SILL
SCALE: NOT TO SCALE



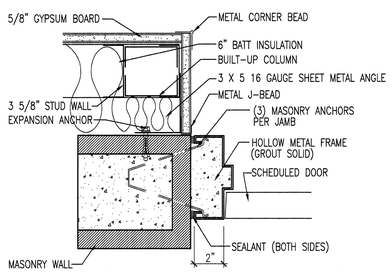
22 A501 STOREFRONT WINDOW SILL
SCALE: NOT TO SCALE



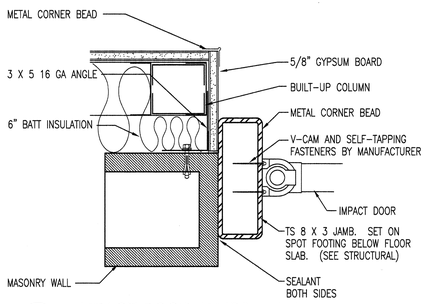
21 A501 STOREFRONT WINDOW HEAD
SCALE: NOT TO SCALE



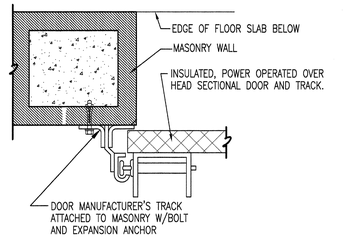
16 A501 HOLLOW METAL WINDOW JAMB
SCALE: NOT TO SCALE



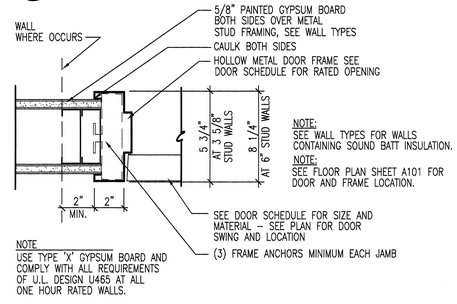
17 A501 HOLLOW METAL DOOR JAMB
SCALE: NOT TO SCALE



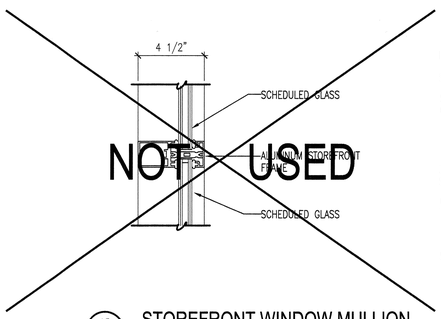
18 A501 IMPACT DOOR JAMB/head sim
SCALE: NOT TO SCALE



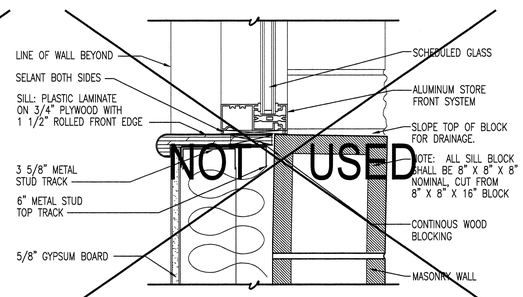
19 A501 OVERHEAD DOOR JAMB
SCALE: NOT TO SCALE



20 A501 HOLLOW METAL OR WOOD DOOR (INTERIOR)
SCALE: NOT TO SCALE



15 A501 STOREFRONT WINDOW MULLION
SCALE: NOT TO SCALE



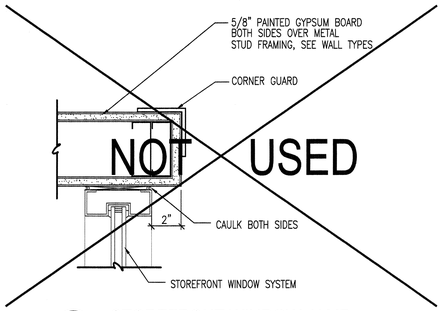
14 A501 STOREFRONT WINDOW SILL
SCALE: NOT TO SCALE

NOT USED

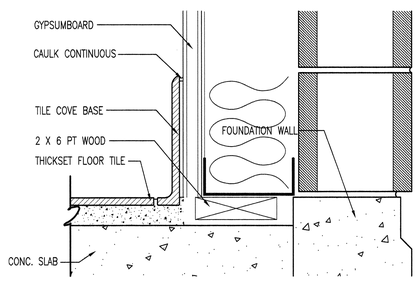
13 A501 STOREFRONT WINDOW JAMB
SCALE: NOT TO SCALE

NOT USED

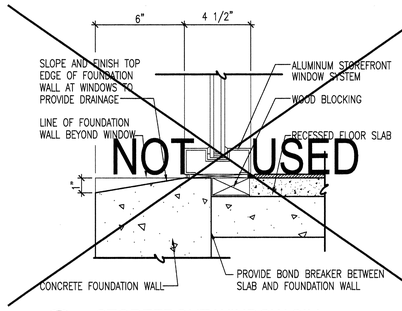
12 A501 STOREFRONT WINDOW JAMB
SCALE: NOT TO SCALE



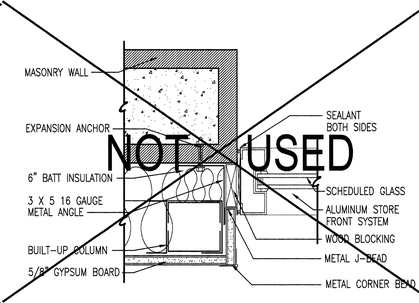
11 A501 STOREFRONT WINDOW JAMB
SCALE: NOT TO SCALE



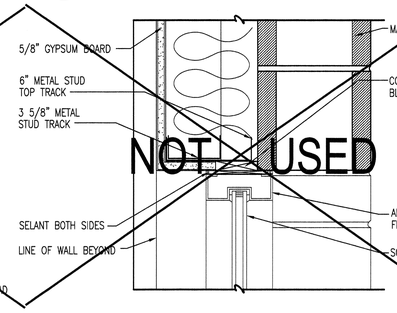
6 A501 THICKSET TILE BASE
SCALE: NOT TO SCALE



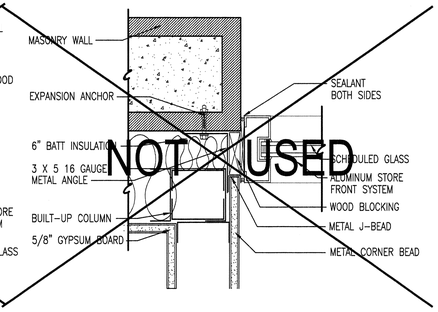
7 A501 STOREFRONT WINDOW SILL
SCALE: NOT TO SCALE



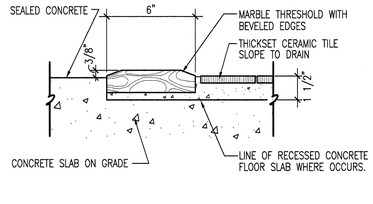
8 A501 STOREFRONT WINDOW JAMB
SCALE: NOT TO SCALE



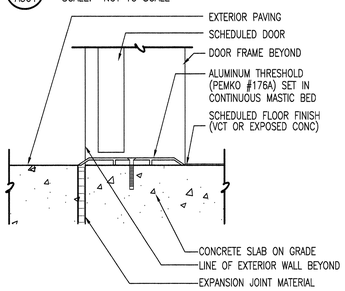
9 A501 STOREFRONT WINDOW HEAD
SCALE: NOT TO SCALE



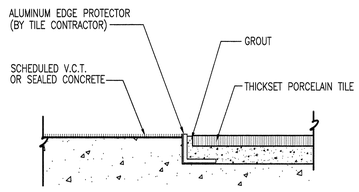
10 A501 STOREFRONT WINDOW JAMB
SCALE: NOT TO SCALE



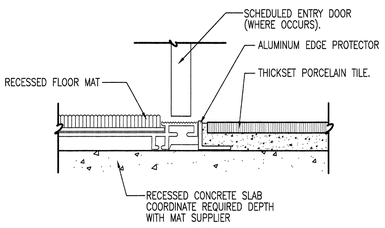
5 A501 MARBLE THRESHOLD
SCALE: NOT TO SCALE



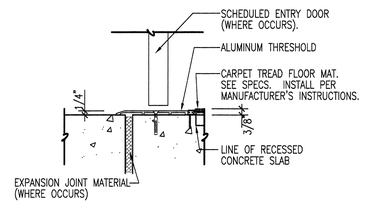
4 A501 DOOR THRESHOLD
SCALE: NOT TO SCALE



3 A501 CONCRETE TO TILE TRANSITION
SCALE: NONE



2 A501 TILE TO FLOOR MAT DETAIL
SCALE: NONE



1 A501 DOOR THRESHOLD (entry mat)
SCALE: NOT TO SCALE

REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

MISCELLANEOUS DETAILS

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH
FRANK N. MURDOCK
12498
REGISTERED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
06233030
CONSTR. DOC.
FILE NAME: ABCR-A501
PLOT SCALE: 3:12
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MAY 2007

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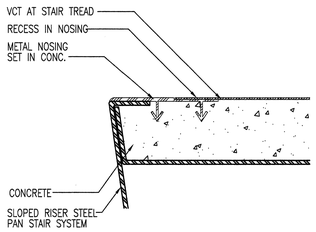
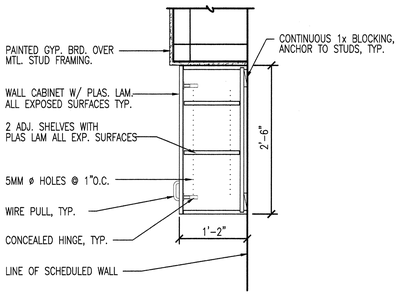
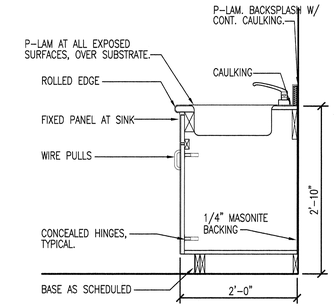
501



13 A502 **STAIR NOSING DETAIL**
SCALE: 3" = 1'-0"



12 A502 **UPPER CABINET SECTION**
SCALE: NOT TO SCALE



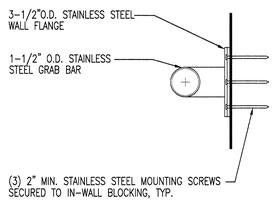
11 A502 **SINK CABINET SECTION**
SCALE: NOT TO SCALE

NOT USED

6 A502 **NOT USED**
SCALE: NONE

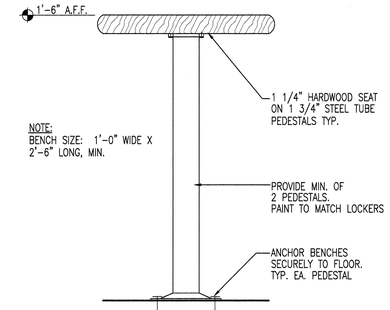
NOT USED

7 A502 **NOT USED**
SCALE: NONE

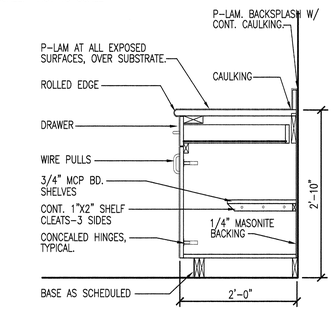


NOTE:
1. INSTALLATION MUST WITHSTAND 250 LB. FORCE IN ANY DIRECTION.

8 A502 **GRAB BAR DETAIL**
SCALE: 3" = 1'-0"



9 A502 **LOCKER ROOM BENCH**
SCALE: 3" = 1'-0"



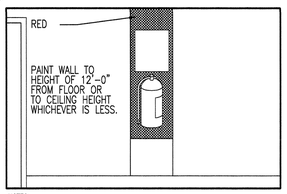
10 A502 **BASE CABINET SECTION**
SCALE: NOT TO SCALE

NOT USED

5 A502 **NOT USED**
SCALE: NONE

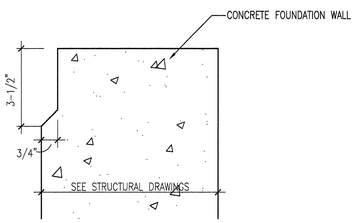
NOT USED

4 A502 **NOT USED**
SCALE: NONE



NOTES:
1. FOR FIRE EXTINGUISHERS IN THE WORKROOM, A RED BACKGROUND MUST BE PROVIDED WHICH EXTENDS SIX INCHES ON THE SIDES AND BELOW THE FIRE EXTINGUISHERS OR CABINETS. THE RED BACKGROUND MUST BE EXTENDED ABOVE THE FIRE EXTINGUISHER TO A HEIGHT OF 12 FEET ABOVE THE FINISHED FLOOR OR TO THE CEILING IF THE ROOM IS LESS THAN 12 FEET IN HEIGHT.
2. LOCATE SAFETY EQUIPMENT AT THE HEIGHT RECOMMENDED BY OSHA AND ON THE MOST ACCESSIBLE FACE.

3 A502 **FIRE EXTINGUISHER IDENTIFICATION**
SCALE: NONE



2 A502 **CONCRETE REVEAL**
SCALE: NONE

NOT USED

1 A502 **NOT USED**
SCALE: NONE

REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

MISCELLANEOUS DETAILS

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH — FRANK N. MURDOCK — 124198 — REGISTERED ARCHITECT

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502

FINISH SCHEDULE

ROOM	FLOOR	WALL	BASE	CEILING	HEIGHT	REMARKS
ENTRY VESTIBULES	THICKSET TILE/ENTRY MAT	PNTD GYP BD	CERAMIC TILE	PNTD GYP BD	14'-0"	
SALES AREA	THICKSET TILE	PNTD GYP BD	CERAMIC TILE	2 X 4 ACOUSTICAL	10'-4"	
STOREROOM	SEALED CONCRETE	PNTD GYP BD	VINYL	2 X 4 ACOUSTICAL	10'-4"	
OFFICE	VCT	PNTD GYP BD	VINYL	2 X 4 ACOUSTICAL	11'-6"	RAISED PLATFORM
STORAGE	SEALED CONCRETE	PNTD GYP BD	VINYL	2 X 4 ACOUSTICAL	11'-6"	
JANITOR'S ROOM	SEALED CONCRETE	PNTD GYP BD	VINYL	2 X 4 ACOUSTICAL	11'-6"	TILE TWO WALLS AT FLOOR SINK, SEE ELEV.
WOMEN'S TOILET	THICKSET TILE	TILE	TILE	PNTD GYP BD	8'-0"	WALL TILE FLOOR TO CEILING
MEN'S TOILET	THICKSET TILE	TILE	TILE	PNTD GYP BD	8'-0"	WALL TILE FLOOR TO CEILING
LUNCH COUNTER	SEALED CONCRETE	PNTD GYP BD	VINYL	2X4 ACOUSTICAL	10'-4"	SEE INTERIOR ELEVATIONS FOR CABINETRY
ENCLOSED DOCK	SEALED CONCRETE	PNTD GYP BD	VINYL	EXPOSED STRUCTURE	VARIES	

GLASS TYPES

A — 1" THICK "LOW E" INSULATING GLASS: 1/4" TINTED FLOAT GLASS EXTERIOR AND 1/4" CLEAR FLOAT GLASS INTERIOR WITH 1/2" AIR SPACE.

ACT — 1" THICK "LOW E" INSULATING GLASS: 1/4" CLEAR FLOAT TEMPERED GLASS EXTERIOR AND 1/4" CLEAR FLOAT TEMPERED GLASS INTERIOR WITH 1/2" AIR SPACE.

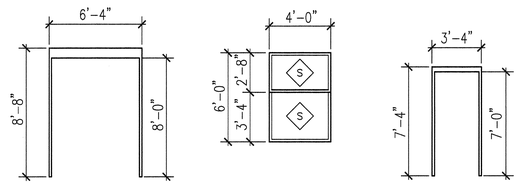
P — 1/8" POLYCARBONATE AT IMPACT DOORS AND OVERHEAD DOORS (PROVIDED AND INSTALLED BY DOOR MANUFACTURER).

S — SECURITY GLASS "LOW E": 1" THICK INSULATING GLASS: 1/4 TINTED FLOAT GLASS EXTERIOR, AND 5/16" SECURITY-LAMINATED SHEETS OF GLASS WITH INNER LAYER OF .075" VINYL OR POLYCARBONATE @ INTERIOR WITH 7/16" AIRSPACE BETWEEN INTERIOR AND EXTERIOR GLASS.

ST — SECURITY GLASS "LOW E": 1" THICK INSULATING GLASS: 1/4 TINTED FLOAT TEMPERED GLASS EXTERIOR, AND 5/16" SECURITY-LAMINATED SHEETS OF GLASS WITH INNER LAYER OF .075" VINYL OR POLYCARBONATE @ INTERIOR WITH 7/16" AIRSPACE BETWEEN INTERIOR AND EXTERIOR GLASS.

SCT — SECURITY GLASS "LOW E": 1" THICK INSULATING GLASS: 1/4 CLEAR FLOAT TEMPERED GLASS EXTERIOR, AND 5/16" SECURITY-LAMINATED SHEETS OF GLASS WITH INNER LAYER OF .075" VINYL OR POLYCARBONATE @ INTERIOR WITH 7/16" AIRSPACE BETWEEN INTERIOR AND EXTERIOR GLASS.

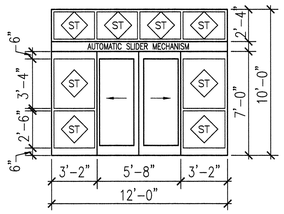
FRAME TYPES



TYPE F-6

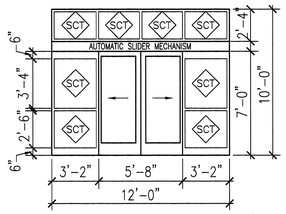
TYPE F-7

TYPE F-8

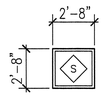


TYPE F-1

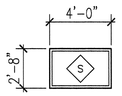
CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS



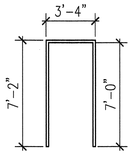
TYPE F-2



TYPE F-3

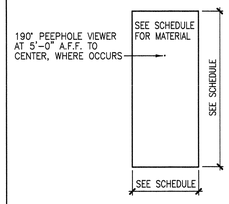


TYPE F-4

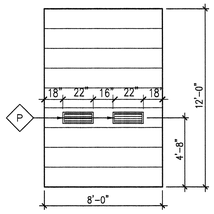


TYPE F-5

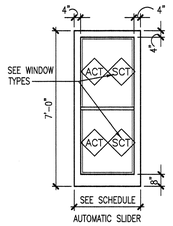
DOOR TYPES



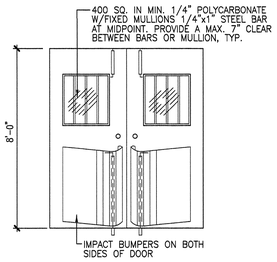
TYPE D-1



TYPE D-2
O.H. SECTIONAL DOOR



TYPE D-3



TYPE D-4
DOUBLE IMPACT DOOR

WINDOW SCHEDULE

NO.	SIZE		FRAME			GLASS	WDW	DETAIL REFERENCE				NO.	REMARKS
⚠	WIDTH	HEIGHT	MATERIAL	TYPE	FINISH	TYPE	BLINDS	HEAD	LEFT JAMB	RIGHT JAMB	SILL	⚠	CONTRACTOR TO COORDINATE ALL WINDOW DIMENSIONS WITH THE MANUFACTURER
1	12'-0"	10'-0"	ALUM	F-1	FF	ST	---	13/A501sim	7/A501	7/A501	24/A501	1	ENTRY DOOR INTEGRAL TO WDW FRAME
2	4'-0"	2'-8"	ALUM	F-4	FF	S	---	13/A501sim	13/A501	13/A501	2/A501	2	ENTRY DOOR INTEGRAL TO WDW FRAME
3	4'-0"	6'-0"	ALUM	F-7	FF	S	---	22/A501sim	22/A501	22/A501	22/A501	3	
4	4'-0"	2'-8"	ALUM	F-4	FF	S	---	22/A501sim	22/A501	22/A501	22/A501	4	
5	4'-0"	2'-8"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	5	
6	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	6	
7	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	7	
8	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	8	
9	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	9	
10	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	10	
11	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	11	
12	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	12	
13	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	13	
14	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	14	
15	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	15	
16	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	16	
17	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	17	
18	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	18	
19	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	19	
20	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	20	
21	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	21	
22	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	22	
23	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	23	
24	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	24	
25	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	25	
26	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	26	
27	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	27	
28	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	28	
29	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	29	
30	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	30	
31	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	31	
32	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	32	
33	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	33	
34	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	34	
35	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	35	
36	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	36	
37	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	37	
38	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	38	
39	2'-8"	2'-8"	ALUM	F-3	FF	S	---	13/A501	12/A501	12/A501	14/A501	39	
40	4'-0"	2'-8"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	40	
41	4'-0"	6'-0"	ALUM	F-7	FF	S	---	22/A501sim	22/A501	22/A501	22/A501	41	
42	4'-0"	2'-8"	ALUM	F-4	FF	S	---	22/A501sim	22/A501	22/A501	22/A501	42	
43	12'-0"	2'-4"	ALUM	F-2	FF	ST	---	13/A501sim	7/A501	7/A501	23/A501	43	
44												44	
45												45	

DOOR SCHEDULE

NO.	SIZE			DOOR			FRAME			DETAIL REFERENCE			HDW.	REMARKS
	WIDTH	HEIGHT	THICK.	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESH.		
1	PR. 3'-0"	7'-0"	---	D-3	ALUM	FF	F-1	ALUM	FF	24/A501	---	1/A501	1	AUTOMATIC SLIDER W/SENSOR ACTIVATION
2	PR. 3'-0"	7'-0"	---	D-3	ALUM	FF	F-2	ALUM	FF	24/A501	---	2/A501	2	AUTOMATIC SLIDER W/SENSOR ACTIVATION
3	3'-0"	7'-0"	---	D-1	HOL. MTL.	FF	F-8	HM	PAINTED	17/A501	17/A501 SIM	1/A501	7	
4	7'-0"	12'-0"	---	D-2	SEE SPECS	FF	---	STEEL	PAINTED	19/A501sim.	19/A501	---	8	INSULATED OVERHEAD SECTIONAL DOOR
5	PR 3'-0"	8'-0"	---	D-4	IMPACT	FF	F-6	HM	PAINTED	18/A501sim.	18/A501	---	6	LIGHTWEIGHT IMPACT DOORS
6	3'-0"	7'-0"	1 3/4"	D-1	WOOD	STAINED	F-5	HM	PAINTED	20/A501sim.	20/A501	5/A501	5	
7	3'-0"	7'-0"	1 3/4"	D-1	WOOD	STAINED	F-5	HM	PAINTED	20/A501sim.	20/A501	---	4	
8	3'-0"	7'-0"	1 3/4"	D-1	WOOD	STAINED	F-5	HM	PAINTED	20/A501sim.	20/A501	5/A501	5	
9	3'-0"	7'-0"	1 3/4"	D-1	WOOD	STAINED	F-5	HM	PAINTED	20/A501sim.	20/A501	5/A501	4	

NEW RIVERTON LIQUOR STORE

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
APPROX. 3900 WEST 13400 SOUTH, RIVERTON, UTAH

DOOR, WINDOW AND FINISH SCHEDULES

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH — FRANK N. MURDOCK — 124486 — LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.: 05053030
CONST. DOC.
FILE NAME: ABCRV-A601
PLOT SCALE: 1:48
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MAY 2007

A 601

STRUCTURAL NOTES

STRUCTURAL DESIGN LOADS

ROOF:
- DEAD LOAD: DL = 25 PSF
- GROUND SNOW LOAD: Pg = 30 PSF
- FLAT ROOF SNOW LOAD: Pf = 43 PSF
- SNOW EXPOSURE FACTOR: Ce = 1.0
- SNOW IMPORTANCE FACTOR: I = 1.0
- THERMAL FACTOR: Ct = 1.0

WIND LOAD:
- BASIC WIND SPEED: V = 90 MPH (3 SEC GUST)
- IMPORTANCE FACTOR: I = 1.0
- WIND EXPOSURE: "C"
- COMPONENT AND CLADDING PRESSURE: P = 25 PSF

SEISMIC:
- USE GROUP: I
- SPECTRAL RESPONSE COEF: SDS = 1.081, SD1 = 0.639
- SITE CLASS: D
- BASIC SEISMIC-FORCE-RESISTING SYSTEM:
  - SPECIAL REINFORCED MASONRY SHEAR WALLS
  - R=5, OMEGA=2.5, Cd=3.5, Cs=0.116

SOILS:
- NET ALLOWABLE SOIL PRESSURE = 1500 PSF
- TO BE FIELD VERIFIED

GENERAL

1. ALL DESIGN, CONSTRUCTION, AND INSPECTION SHALL BE IN CONFORMANCE WITH THE 2006 INTERNATIONAL BUILDING CODE.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.
4. DRAWINGS INDICATE THE FINISHED PRODUCT. THEY DO NOT INDICATE A METHOD OF CONSTRUCTION. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH PRECAUTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, ETC.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING THE OWNER FOR ANY CHANGES MADE AS A RESULT OF A DEVIATION FROM THE CONTRACT DOCUMENTS, DEVIATION FROM THE SPECIFICATIONS, FAULTY MATERIALS, OR FAULTY WORKMANSHIP.
6. OPTIONS ARE FOR THE CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED DESIGN CHANGES. COST ASSOCIATED WITH ANY DESIGN WORK INITIATED BY THE OPTION SHALL BE BORN BY THE CONTRACTOR.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.
8. TEMPORARY SHORING AND BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETE.
9. DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS.
10. THE GENERAL CONTRACTOR SHALL HAVE SHOP DRAWINGS REVIEWED BY THE ARCHITECT PRIOR TO THE FABRICATION OR ERECTION FOR THE FOLLOWING ITEMS: REINFORCING STEEL, STRUCTURAL STEEL, MISCELLANEOUS METALS, PREFABRICATED WOOD JOISTS, PREFABRICATED STEEL JOISTS, PREFABRICATED WOOD TRUSSES AND GLU-LAM BEAMS.
11. ALL DETAILS, SECTIONS, AND NOTES ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS UNLESS NOTED OR SHOWN OTHERWISE.
12. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT COVERED ON THE DRAWINGS.
13. OBSERVATION VISITS TO THE JOB SITE BY FIELD REPRESENTATIVES OF CALDER RICHARDS CONSULTING ENGINEERS SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
14. SIZES, LOCATIONS, AND ANCHORAGES OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS (SUPPLIERS) PRIOR TO PLACING CONCRETE OR FABRICATING STEEL.

QUALITY ASSURANCE PLAN

1. SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER ACCORDING TO IBC CHAPTER 17 FOR THE ITEMS IDENTIFIED IN THIS SECTION AND ON THE CONTRACT DOCUMENTS.
2. THE NAMES AND CREDENTIALS OF SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A BUILDING PERMIT.
3. SPECIAL INSPECTION REPORTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD, ARCHITECT, AND OWNER (AS REQUESTED) BI-WEEKLY OR MORE FREQUENTLY AS REQUIRED BY THE INSPECTOR OR BUILDING OFFICIAL.
4. OFF-SITE FABRICATION: WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATORS SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE IN ACCORDANCE WITH IBC SECTION 1704.2 UNLESS THE FABRICATOR IS APPROVED ACCORDING TO IBC SECTION 1704.2.2.
5. STEEL CONSTRUCTION: SPECIAL INSPECTIONS FOR STEEL ELEMENTS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 1704.3 AND TABLE 1704.3.
6. WELDING: WELDING INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1704.3. ELEMENTS THAT ARE PART OF THE SEISMIC-FORCE-RESISTING SYSTEM SHALL ALSO BE INSPECTED ACCORDING TO SECTION 1707.2 AND 1708.4.

QUALITY ASSURANCE PLAN

7. HIGH-STRENGTH BOLTS: PERIODIC SPECIAL INSPECTION SHALL BE PROVIDED FOR INSTALLATION OF HIGH-STRENGTH BOLTS IN ACCORDANCE WITH AISC SPECIFICATIONS. SEE IBC SECTION 1704.3.3.
8. CONCRETE CONSTRUCTION: SPECIAL INSPECTIONS AND VERIFICATIONS SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1704.4.
9. MASONRY CONSTRUCTION: LEVEL 1 SPECIAL INSPECTION SHALL BE PROVIDED FOR MASONRY CONSTRUCTION IN ACCORDANCE WITH SECTION 1704.5.2 AND TABLE 1704.5.1. TESTING SHALL COMPLY WITH SECTION 1708.1.3
10. COLD-FORMED STEEL FRAMING: CONNECTIONS OF ELEMENTS IN THE SEISMIC-FORCE-RESISTING SYSTEM IN ACCORDANCE WITH SECTION 1707.4.
11. SOILS: SPECIAL INSPECTION SHALL BE PROVIDED FOR PLACEMENT OF FILL 12 INCHES OR MORE DEEP IN ACCORDANCE WITH SECTION 1704.7.
12. EPOXY ANCHORS: PRIOR TO AND DURING EPOXY INJECTION TO INSURE PROPER INSTALLATION AS PER MANUFACTURERS REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED EPOXY MANUFACTURERS ICBO REPORT TO STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

QUALITY ASSURANCE - CONTRACTOR RESPONSIBILITY

1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
   - A. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
   - B. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
   - C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
   - D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THE POSITION(S) IN THE ORGANIZATION.

STRUCTURAL DEFERRED SUBMITTALS

1. CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT TO ARCHITECT/ENGINEER BEFORE SUBMITTING TO JURISDICTION FOR REVIEW AND PERMITTING.

   ITEMS:
   1. OPEN WEB METAL JOISTS AND GIRDERS
   2. CONCRETE MIX DESIGN
   3. DESIGN-BUILD STAIRS
   4. ATTACHMENT OF MECHANICAL UNIT TO SUPPORT

FOOTINGS

1. ALL FOOTINGS SHALL BEAR 12" MINIMUM INTO ORIGINAL UNDISTURBED EARTH OR ON ENGINEERED FILL COMPACTED TO 95% OF MAXIMUM RELATIVE DENSITY BASED ON ASTM D1557-91. SUCH FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 6" IN DEPTH AFTER COMPACTION AND SHALL EXTEND DOWN TO IN-SITU GRANULAR SOILS.
2. FOOTING ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
3. EXTERIOR WALL FOOTINGS SHALL BEAR AT A MINIMUM DEPTH OF 2'-6" BELOW FINISHED EXTERIOR GRADE.
4. NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
5. ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THE CONDITIONS USED FOR DESIGN OF FOOTINGS AS OUTLINED ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING.
6. DO NOT BACK FILL BEHIND FOUNDATION WALLS UNTIL TOP AND BOTTOM SLABS HAVE BEEN POURED AND ATTAINED THEIR DESIGN STRENGTHS.
7. BACK FILL BOTH SIDES OF FOUNDATION WALLS AT SAME TIME TO PREVENT OVERTURNING.
8. WHERE 6" DIAMETER OR LARGER PIPE PASSES THROUGH AN INTERIOR OR EXTERIOR FOUNDATION WALL, STEP THE FOOTING DOWN TO PASS BELOW PIPE AND THEN STEP BACK UP TO INDICATED ELEVATION. PROVIDE PIPE SLEEVE THROUGH FOUNDATION WALL.
9. ALL FOOTING EXCAVATIONS SHALL BE EXAMINED BY A GEOTECHNICAL ENGINEER FOR VERIFICATION OF ADEQUATE BEARING CONDITIONS BEFORE PLACING CONCRETE.

REINFORCING STEEL

1. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL 315-92 AND ACI STANDARD 318-02.
2. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. LAP ONE MESH TIE.
4. ALL REINFORCEMENT SHALL BE SECURELY TIED AND HELD IN PLACE.

REINFORCING STEEL

5. REINFORCING BARS THAT ARE TO BE WELDED, INCLUDING DEFORMED BAR ANCHORS (DBA) SHALL COMPLY WITH ASTM A706 OR ANOTHER WELDABLE GRADE AND SHALL BE WELDED IN ACCORDANCE WITH THE AWS RECOMMENDATIONS.
6. ALL CONTINUOUS REINFORCEMENT SHALL TERMINATE WITH A 90 DEGREE TURN OR A SEPARATE CORNER BAR. ALL SPLICE SHALL HAVE A MINIMUM LAP OR EMBEDMENT PER REINFORCING SCHEDULE.
7. WHERE THE LENGTH OF A BAR IS GIVEN AND IT IS TO BE HOOKED, THE HOOK SHALL BE IN ADDITION TO THE LENGTH GIVEN, UNLESS SHOWN OTHERWISE.
8. COVER TO MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE:
   - A. UNFORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO THE WEATHER (BOTTOM OF FOOTINGS). 3"
   - B. SLABS ON GRADE............................ 2"
   - C. FORMED SURFACES IN CONTACT WITH THE GROUND OR EXPOSED TO THE WEATHER (GRADE BMS, WALLS, ETC), BEAMS AND COLUMNS.......................... 2"
   - D. STRUCTURAL SLABS AND JOISTS NOT EXPOSED TO WEATHER OR EARTH........................... 1"
   - E. INTERIOR WALL SURFACES..................... 1"
   - F. INTERIOR BEAMS AND COLUMNS................. 1-1/2"
   - G. IN ALL CASES MINIMUM COVER SHALL NOT BE LESS THAN THE DIAMETER OF ADJACENT BARS.
9. PRIOR TO FABRICATION AND PLACEMENT, SHOP DRAWINGS FOR ALL REINFORCING STEEL SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

CONCRETE

1. CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
   - FOOTINGS & FOUNDATION WALLS.............. 3000 PSI
   - INTERIOR SLABS ON GRADE.................. 4000 PSI
   - EXTERIOR FLAT WORK....................... 4000 PSI
2. A STATEMENT OF MIX DESIGN FOR ALL CONCRETE SHALL BE SUBMITTED TO AND REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
3. ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.
4. UNLESS NOTED OTHERWISE ON THE DRAWINGS, REINFORCE CONCRETE WALLS AS FOLLOWS:

WIDTH	HORIZ REINF	VERT REINF
8" WALL	#5 @ 12"	#5 @ 16" CENTER OF WALL

5. DOWEL VERTICAL BARS 36 DIAMETERS INTO STRUCTURE ABOVE AND FOOTINGS BELOW. PROVIDE 90 DEGREE HOOK WHERE 36 DIAMETER IS NOT POSSIBLE. IN ADDITION, PROVIDE (2) #5 CONTINUOUS BARS TOP AND BOTTOM OF 6" AND 8" WALLS AND (2) #6 BARS TOP AND BOTTOM OF WALLS 10" OR THICKER.
6. BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC. RELATIVE TO WORK.
7. ADD (2) #5 BARS MINIMUM AROUND ALL OPENINGS (UNLESS OTHERWISE NOTED) AND EXTEND 24" BEYOND CORNER OF OPENING.
8. WHERE OPENINGS LARGER THAN 16" IN ANY DIRECTION OCCUR IN WALLS OR SLABS, PROVIDE SAME SIZE ADDITIONAL, FULL LENGTH REINFORCING AT EACH SIDE OF OPENING EQUAL TO 1/2 THE NUMBER OF BARS INTERRUPTED BY THE OPENING. SPACE ADDITIONAL BARS AT 4 x BAR DIAMETER.
9. ALL SLABS ON GRADE SHALL BE PLACED IN ALTERNATE PANELS WITH A MAXIMUM WIDTH OF 20' BETWEEN CONTROL OR CONSTRUCTION JOINTS; REFER TO TYPICAL DETAILS ON DRAWINGS. UNLESS OTHERWISE NOTED, SLABS ON GRADE SHALL BE 4" THICK AND SHALL BE REINFORCED WITH 6x6-W1.4xW1.4 WELDED WIRE FABRIC.
10. REFER TO DRAWINGS FOR TYPICAL CONSTRUCTION JOINT DETAILS. UNLESS NOTED IN DRAWINGS, ALL REINFORCEMENT SHALL BE CONTINUOUS THRU JOINTS AND EACH CONSTRUCTION JOINT SHALL BE KEYED.
11. FORMS, SCREEDS, AND BEAMS SUPPORTING SUSPENDED CONCRETE SHALL BE CAMBERED 1/4 INCH PER 10 FEET OF SPAN TO COMPENSATE FOR DEAD LOAD DEFLECTIONS.
12. WHERE EXTERIOR SLABS ON GRADE ABUT WALLS OR COLUMNS PROVIDE 3/8" PREFORMED EXPANSION JOINT WITH SEALANT.

MASONRY (CMU)

1. ALL MASONRY SHALL BE REINFORCED WITH BOTH HORIZONTAL AND VERTICAL REINFORCEMENT. ALL BLOCK CELLS OR BRICK CAVITIES WITH REINFORCEMENT SHALL BE GROUTED FULL USING CONCRETE 2000 PSI GROUT. CELLS SHALL BE ALIGNED TO PRESERVE UNOBSTRUCTED VERTICAL CAVITIES OF 2"x3" MINIMUM.
2. CONCRETE FOR BLOCK FILL SHALL HAVE 3/8" MAXIMUM SIZE COURSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. WHERE BEAMS BEAR ON CONCRETE BLOCK WALLS. BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1'-4" WIDE TO FOUNDATION AND REINFORCE WITH A #5 EACH CELL, UNLESS OTHERWISE SHOWN.
3. AN ADDITIONAL VERTICAL BAR (MATCHING WALL REINFORCEMENT) SHALL BE PLACED AT EACH CORNER, END OF WALL, AND JAMB OF ALL OPENINGS.
4. ALL STEEL JOIST, JOIST GIRDER, AND STEEL BEAM POCKETS IN MASONRY SHALL BE GROUTED SOLID UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
5. HORIZONTAL BARS SHALL BE PLACED IN BOND BEAMS FILLED WITH GROUT AT THE TOP OF ALL WALLS AND AT 48" OC MAXIMUM BETWEEN TOP OF WALL AND FOUNDATION. BOND BEAM UNITS AND REINFORCING SHALL CONTINUE UNINTERRUPTED AROUND ALL CORNERS AND WALL INTERSECTIONS. WHERE STRUCTURAL STEEL COLUMNS OR BEAMS INTERRUPT THE CONTINUITY OF A BOND BEAM, DOWELS MATCHING BOND BEAM REINFORCEMENT SHALL BE WELDED TO THE STRUCTURAL STEEL TO PROVIDE CONTINUITY.

MASONRY (CMU)

6. ALL VERTICAL REINFORCING BARS SHALL BE DOWELED TO STRUCTURE BELOW WITH BARS OF SAME SIZE AND SPACING. LAP ALL SPLICES IN MASONRY PER REBAR SHEDULE. PLACE ALL BARS SECURELY PRIOR TO GROUTING.
7. MASONRY REINFORCEMENT: THE MINIMUM REINFORCEMENT IN GROUTED CELLS FOR ALL MASONRY WALLS SHALL BE AS FOLLOWS:
   8" WALLS: #5 @ 32" OC VERTICAL AND
   (2) #4 @ 48" OC HORIZONTAL
8. ALL HORIZONTAL REINFORCING SHALL TERMINATE WITH A HOOK AROUND VERTICAL REINFORCING.
9. IN ADDITION LADDER-TYPE REINFORCING CONSISTING OF #9 WIRE FOR EACH FACE SHELL OF EACH WYTHE SHALL BE USED AT 16" OC HORIZONTALLY IN ALL MASONRY WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.
10. CONCRETE MASONRY UNITS SHALL BE GRADE N UNITS CONFORMING TO ASTM DESIGNATION C90 AND SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 1900 PSI ON THE NET SECTION.
11. MORTAR SHALL BE TYPE "S" AND SHALL HAVE THE FOLLOWING PROPORTIONS BY VOLUMES:
    - PORTLAND CEMENT....... 1 PART
    - HYDRATED LIME......... 1/4 - 1/2 PART
    - DAMP LOOSE AGGREGATE.. NOT LESS THAN 2-1/4 AND NOT MORE THAN (3) TIMES THE SUM OF CEMENT AND LIME USED.
12. STOP GROUT POURS 1/2" BELOW TOP OF BLOCK UNITS.
13. ALL ANCHOR BOLTS MUST BE PLACED IN GROUTED CELLS.
14. NO MASONRY SHALL BE LAID WHEN THE TEMPERATURE OF THE OUTSIDE AIR IS BELOW 40 DEGREES FARENHEIT, UNLESS APPROVED METHODS ARE USED DURING CONSTRUCTION TO PREVENT DAMAGE TO THE MASONRY. SUCH METHODS SHALL INCLUDE PROTECTION OF THE MASONRY FOR A PERIOD OF AT LEAST 48 HOURS.
15. ALL REINFORCING SHALL BE IN PLACE PRIOR TO GROUTING. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION AT THE TOP, BOTTOM AND AT INTERVALS NOT FARTHER APART THAN 200 BAR DIAMETERS. PROVIDE WIRE TIES AT ALL LAP SPLICES.
16. ALL MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT: MAJOR CHANGES IN WALL HEIGHT, AT CHANGES IN WALL THICKNESS, AT BUILDING CONSTRUCTION JOINTS, AND NOT FARTHER APART THAN 40 FEET ELSEWHERE. PROVIDE MATCHING CONTROL JOINTS FOR BRICK VENEER. CONSULT ARCHITECTURAL DRAWINGS FOR LOCATIONS. VERTICAL CELLS EACH SIDE OF CONTROL JOINTS SHALL BE GROUTED AND REINFORCED WITH REBARS TO MATCH VERTICAL REINFORCEMENT USED THROUGHOUT THAT WALL. ONLY HORIZONTAL REBARS IN BOND BEAMS AT FLOORS AND AT ROOF LEVEL SHALL CONTINUE THROUGH CONTROL JOINTS. PROVIDE FULL HEIGHT HARD RUBBER KEY AT JOINT. WHERE JOINT LOCATIONS ARE NOT SHOWN ON THE DRAWINGS THE CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS TO ARCHITECT/ENGINEER FOR REVIEW.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL AND STRUCTURAL STEEL WORK SHALL COMPLY WITH BOTH THE AISC "MANUAL OF STEEL CONSTRUCTION" CONTAINING THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS, INCLUDING THE "CODE OF STANDARD PRACTICES" (LATEST EDITION), AND WITH THE IBC 2003 EDITION.
2. ALL WIDE FLANGE STRUCTURAL STEEL SHALL BE ASTM A992 AND ALL MISCELLANEOUS SHAPES SHALL BE ASTM A36, UNO.
3. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B; YIELD STRESS = 46 KSI.
4. STRUCTURAL STEEL PIPE COLUMNS SHALL CONFORM TO ASTM A501, GRADE B; YIELD STRESS = 35 KSI.
5. USE A325 BOLTS FOR STEEL TO STEEL CONNECTIONS AND A307 BOLTS FOR ALL OTHER CONNECTIONS. USE 3/4" DIAMETER MINIMUM.
6. PRIOR TO FABRICATION AND ERECTION, SHOP DRAWINGS FOR ALL STEEL ITEMS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWING DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.
7. ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES AND BY WELDERS CERTIFIED BY AWS STANDARDS WITHIN THE PAST 12 MONTHS; PROVIDE WRITTEN CERTIFICATION IF REQUESTED.
8. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE APPROPRIATE MINIMUM BOLT TENSION IN ACCORDANCE WITH "AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." THE PREFERRED METHOD OF TIGHTENING IS BY USE OF A "DIRECT TENSION INDICATOR." THE TURN-OF-NUT METHOD MAY ALSO BE USED. PROVIDE CARBONIZED WASHERS UNDER THE TURNED ELEMENT.
9. ALL STEEL JOISTS, JOIST GIRDERS, AND ASSOCIATED WORK SHALL COMPLY WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE". UNLESS SHOWN OTHERWISE, PROVIDE BRIDGING IN ACCORDANCE WITH THIS SPECIFICATION AS A MINIMUM. JOIST FABRICATOR SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE (SJI). JOISTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT AND HE SHALL SEAL AND SIGN ALL DESIGN CALCULATIONS AND JOISTS SHOP DRAWINGS. DESIGN SHALL COMPLY WITH ALL LOADING REQUIREMENTS INDICATED ON THE DRAWINGS AND NOTES. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL CLEARLY INDICATE ALL LOADINGS, DIMENSIONS, MEMBER FORCES, REACTIONS, MEMBER SIZES, WELD REQUIREMENTS AND JOINT DETAILS. JOISTS SHALL BE DESIGNED ASSUMING HORIZONTAL MOVEMENT IS ALLOWED AT ONE END, UNLESS NOTED OTHERWISE.
10. ALL BRIDGING SHALL BE SECURELY ANCHORED AT END OF EACH RUN. WELD TO STEEL BEAM OR ANCHOR TO MASONRY WALL WITH 3/8" ANCHOR BOLTS.
11. WHERE JOISTS CAN NOT BEAR 2-1/2" ON STEEL BEAMS, STAGGER LOCATION OF JOISTS TO PROVIDE 2-1/2" MINIMUM BEARING ON BEAM.
12. CONCENTRATED LOADS SHALL NOT BE PLACED ON NOR HUNG FROM JOISTS UNLESS THEY ARE PLACED AT PANEL POINTS OR A BRACE (L1-1/2x1-1/2x1/8) IS INSTALLED BETWEEN THE LOAD AND PANEL POINT. CONCENTRATED LOADS NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR REVIEW.

STRUCTURAL STEEL

13. OPEN WEB ROOF JOISTS AND GIRDERS SHALL BE DESIGNED FOR A NET WIND UPLIFT OF 10 PSF, UNLESS NOTED OTHERWISE.
14. OPEN WEB ROOF JOISTS AND GIRDERS SHALL BE DESIGNED FOR THE FOLLOWING DEFLECTION LIMITS:
    - LIVE OR SNOW LOAD SPAN/360
    - TOTAL LOAD SPAN/240
15. PROVIDE CAMBER IN OPEN WEB JOIST AND GIRDER PER STEEL JOIST INSTITUTE RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
16. JOIST MANUFACTURER TO DESIGN JOIST TOP CHORD WITH UNBRACED LENGTH EQUAL TO SKYLIGHT OPENING.
17. WHERE STEEL JOIST OR GIRDER SLOPE EXCEEDS 1/4" PER FOOT, PROVIDE SLOPED BEARING SEAT.
18. THE STEEL JOIST AND GIRDER MANUFACTURER SHALL SUBMIT ERECTION DRAWINGS AND STAMPED CALCULATIONS BY A LICENSED CIVIL OR STRUCTURAL ENGINEER TO THE ENGINEER OF RECORD FOR REVIEW.
19. JOISTS SHALL BE DESIGNED FOR AN ADDITIONAL 500 LBS CONCENTRATED LOAD AT ANY ONE PANEL POINT.
20. GIRDERS SHALL BE DESIGNED FOR AN ADDITIONAL 1000 LBS CONCENTRATED LOAD AT ANY ONE PANEL POINT.
21. JOIST MANUFACTURER TO DESIGN FOR THE MECHANICAL UNITS SHOWN WITH WEIGHTS GREATER THAN 500 LBS.
22. SPECIAL INSPECTIONS AND TESTING OF WELDS AS REQUIRED BY IBC 2006 SHALL BE PROVIDED BY THE OWNER.
23. MECHANICAL ROOF TOP UNITS SHALL BE PLACED OVER ADDITIONAL OR SPECIAL JOISTS AS SHOWN ON DRAWINGS. THE WEIGHT, SIZE AND LOCATION OF ALL PROPOSED UNITS AND CURBS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR VERIFICATION BEFORE FABRICATION OF STEEL.
24. FRAMES FOR ROOF OPENINGS AND SUPPORTS FOR ROOF MOUNTED MECHANICAL EQUIPMENT ARE INDICATED ON DRAWINGS FOR BID PURPOSES ONLY. UPON RECEIPT OF MECHANICAL SUBMITTALS, THE CONTRACTOR SHALL FURNISH STEEL SUPPLIER SUPPLEMENTARY DRAWINGS OR OTHER INFORMATION NECESSARY TO LAYOUT AND DETAIL THIS PORTION OF THE WORK. OTHER STEEL WORK SHALL NOT BE DELAYED BY THIS PORTION OF THE WORK. SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.
25. STEEL ROOF DECK SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE, SDI. SUBMIT ICBO REPORT WITH SHOP DRAWINGS.
26. WHERE POSSIBLE, ALL DECK SHALL BE (3) SPAN CONTINUOUS MINIMUM. IN AREAS WHERE (3) SPAN CONDITIONS ARE NOT POSSIBLE, THE DECK SHALL MEET THE LOADING CRITERIA FOR THE SPAN CONDITION. THE CONTRACTOR SHALL PROVIDE HEAVIER GAGE DECK AND/OR SHORING AS REQUIRED.
27. DECK SHALL HAVE A MINIMUM BEARING LENGTH OF 2".

LIGHT GAGE METAL FRAMING

1. DESIGN, FABRICATION AND ERECTION OF LIGHT-GAGE METAL FRAMING SHALL COMPLY WITH REQUIREMENTS OF: AISC "MANUAL OF STEEL CONSTRUCTION", AWS "STRUCTURAL WELDING CODE", AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", AND ICBO REPORT ER-4943P.
2. FRAMING SHOWN ON PLANS ARE MINIMUM SIZES AND CONDITIONS. SUBSTITUTION OF FRAMING MEMBERS SHALL BE APPROVED BY ARCHITECT AND ENGINEERS. THEY SHALL HAVE CAPACITY FOR GRAVITY LOADS AND LATERAL LOADS EQUAL TO OR BETTER THAN SPECIFIED FRAMING MEMBERS AND SHALL BE ICBO APPROVED.
3. ALL COMPONENTS SHALL BE GALVANIZED ACCORDING TO REQUIREMENTS OF ASTM A-525 FOR MINIMUM G-60 COATING.
4. ALL 16 AND 18 GAGE STUDS, AND ALL TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF ASTM A-446, WITH A MINIMUM YIELD OF 33 KSI FOR 18 GAGE AND 50 KSI FOR 16 GAGE, FOR STUDS AND 33 KSI FOR RUNNERS, BRIDGING, END CLOSURES AND ACCESSORIES.
5. ALL WELDS SHALL BE ACCOMPLISHED USING 1/8" AWS TYPE 6013 OR 7014 ROD WITH A WELDING HEAT OF 60 TO 110 AMPERES DEPENDING ON THE GAGE OF MATERIAL AND THE FIT OF THE PARTS. WIRE TYING OF FRAMING COMPONENTS IS NOT PERMITTED.
6. ADEQUATE LATERAL BRACING MUST BE PROVIDED DURING CONSTRUCTION.
7. UNLESS NOTED OTHERWISE, METAL FRAMING MEMBERS AT LOAD BEARING, SHEAR WALLS AND EXTERIOR WALLS SHALL BE 18 GAGE FOR STUDS, 16 GAGE FOR TOP AND BOTTOM RUNNER. 16 GAGE FOR STUDS AT HOLD DOWNS.
8. RUNNER TRACKS: INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS. ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS. UNLESS INDICATED OTHERWISE, SECURE TRACKS AS RECOMMENDED BY STUD MANUFACTURER FOR TYPE OF CONSTRUCTION INVOLVED, EXCEPT DO NOT EXCEED 24" OC SPACING FOR NAIL OR POWER-DRIVEN FASTENERS, OR 16" OC FOR OTHER TYPES OF ATTACHMENT. PROVIDE FASTENERS AT CORNERS AND ENDS OF TRACK.
9. FASTENINGS: FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR BY WELDING. SCREWS AND WELDS SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT. FASTENING OF PLYWOOD DIAPHRAGMS AND SILL PLATES SHALL BE AS INDICATED IN STRUCTURAL NOTES, AND DETAILED.
10. STUD SECTIONS USED AS RAFTERS OR JOISTS SHALL BE UNPUNCHED.
11. ALL NON-LOAD BEARING WALLS SHALL BE ERECTED SO AS TO ALLOW FOR PROPER DEFLECTION OF STRUCTURE ABOVE. THE TOPS OF ALL SUCH WALLS SHALL BE HORIZONTALLY BRACED TO THE STRUCTURE ABOVE AT A MAXIMUM OF 8'-0" OC.

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REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION
DPT OF ALCOHOLIC BEVERAGE CONTROL
3381 S REDWOOD ROAD, WEST VALLEY CITY, UTAH

FRANK N MURDOCK JR Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

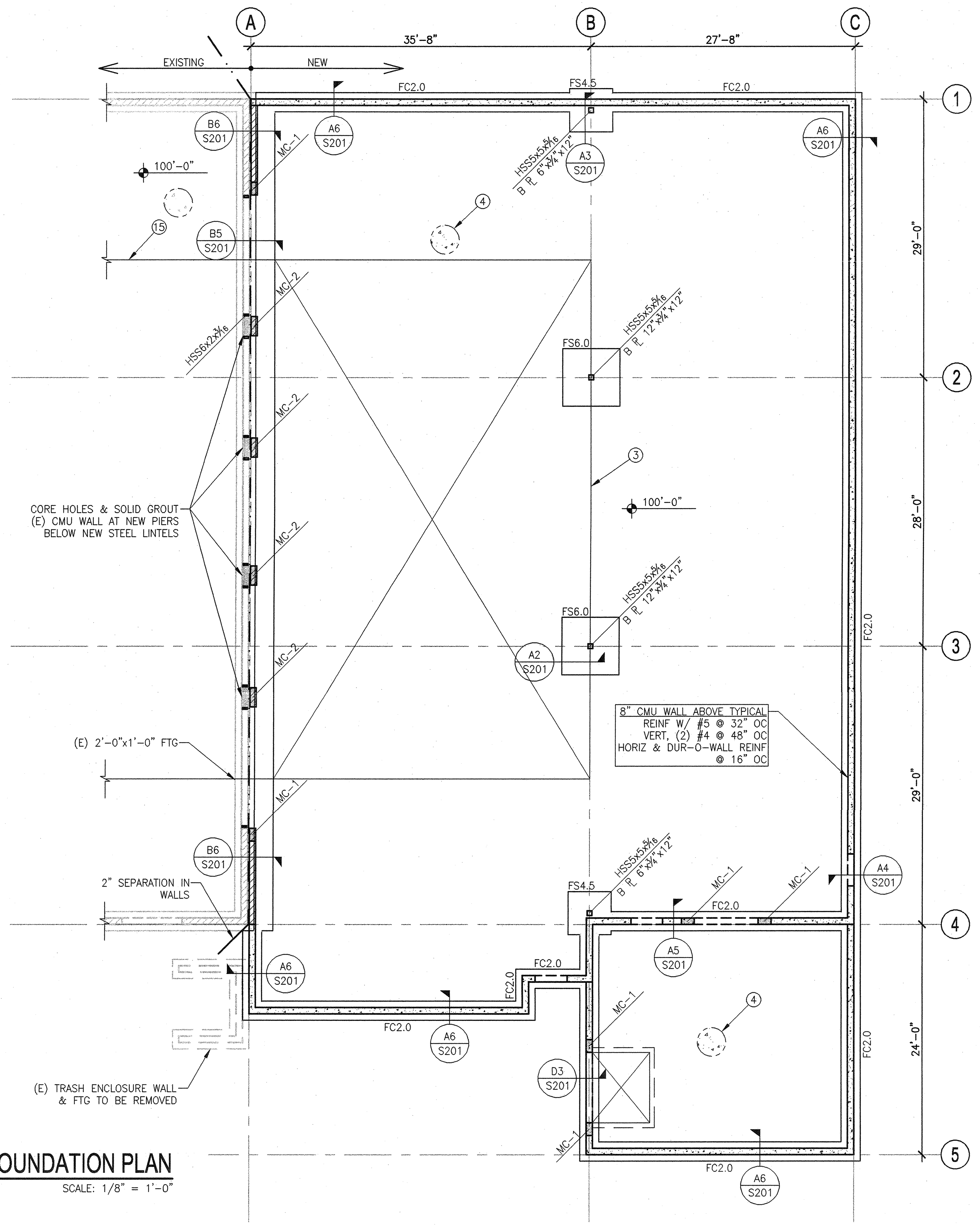
STRUCTURAL NOTES

LICENSED PROFESSIONAL ENGINEER
No. 191304
SHAUN A. PACKER
STATE OF UTAH

REVISION # DATE:

CONSTRUCTION DOCUMENTS
FILE NAME: S001
PLOT SCALE: 3/4"=1'-0"
DRAWN BY: JRS
CHECKED BY: SP
DATE: 02/05/07

S001



FOOTING & FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES (FTG & FDTN):

◯ CIRCLED NOTES ARE KEYED ON PLAN.

1. SEE STRUCTURAL NOTES ON **SHEET S001** FOR ADDITIONAL INFORMATION.
2. TOP OF SLAB ELEVATION = 100'-0", UNLESS NOTED THUS: xxx'-xx" SLOPE UNIFORMLY TO FLOOR DRAINS.
3. (circled) SEE DETAIL **A1/S201** FOR TYPICAL STEP IN SLAB. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF STEPS.
4. (circled) SLAB ON GRADE SHALL BE 5" CONCRETE OVER 4" FREE-DRAINING GRAVEL, UNO. REINFORCE SLAB WITH 6x6-W1.4xW1.4 WWF (USE FLAT SHEETS).
5. PLACE CONTROL JOINTS AND CONSTRUCTION JOINTS IN SLAB PER STRUCTURAL NOTES. SEE DETAIL **B2/S201**.
6. SEE PLAN FOR FOOTING TYPE. SEE SCHEDULE **THIS SHEET** FOR FOOTING SIZE AND REINFORCEMENT.
7. CENTER FOOTINGS ON WALLS AND COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS.
8. SEE PLAN AND SECTIONS FOR TOP OF FOUNDATION WALL ELEVATIONS.
9. SEE DETAIL **D5/S201** FOR MASONRY COLUMN SCHEDULE INDICATING SIZE AND REINFORCEMENT.
10. SEE DETAIL **B1/S201** FOR CONTROL/EXPANSION JOINTS IN MASONRY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
11. SEE DETAILS **B3/S201 & C2/S201** FOR TYPICAL CONCRETE AND MASONRY WALL REINFORCEMENT DETAILS.
12. SEE DETAIL **B4/S201** FOR TYPICAL STEP IN FOOTING.
13. FOUNDATION DESIGN INFORMATION TO BE FIELD VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING ANY CONCRETE.
14. SEE ARCHITECTURAL/SITE DRAWINGS FOR INFORMATION AND LOCATION OF SITE WALLS, STEPS, PLANTERS, RAMPS, ETC.
15. (circled) SEE DETAIL C1/S201 FOR DEPRESSED SLAB CONDITION AT EXISTING. SEE ARCHITECTURAL PLANS FOR LOCATIONS.

LEGEND:

Symbol	Description
FCx.0, FSx.0, FRx.0/y.0	CONTINUOUS FOOTING, SPOT FOOTING TYPES RESPECTIVELY, SEE SCHEDULE
(circle)	CONC SLAB ON GRADE
FCx.x	CONCRETE FOOTING & FDTN WALL
	CONC WALL
	RECESS IN CONC FDTN WALL
MC-#	MASONRY COLUMN IN WALL ABOVE
□	STEEL COLS - TUBE, WIDE FLANGE, PIPE, SCHEDULE MARK

FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT		NOTES
	WIDTH x THICK x LENGTH	LONGITUDINAL	TRANSVERSE	
FC2.0	2'-0" x 1'-0" x CONT	(3) #4	–	
FS4.5	4'-6"x1'-0"x4'-6"	(4) #5	(4) #5	
FS6.0	6'-0"x1'-0"x6'-0"	(6) #5	(6) #5	

FOOTING NOTES:

1. PLACE CROSSWISE REINFORCING 3" CLEAR FROM GRADE AND LENGTHWISE REINFORCING ON TOP OF CROSSWISE.
2. ALL CONTINUOUS FOOTINGS SHALL BE FC2.0 AND SQUARE FOOTINGS SHALL BE FS2.0, MINIMUM, UNO ON PLANS.

FOOTING SCHEDULE

3110.00 R-SCHFTGS FOOTING SCHEDULE SCALE: NONE

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REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION

DPT OF ALCOHOLIC BEVERAGE CONTROL
3381 S REDWOOD ROAD, WEST VALLEY CITY, UTAH

FOOTING & FOUNDATION PLAN

FRANK N MURDOCK JR Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

LICENSED PROFESSIONAL ENGINEER No. 191304 SHAUN A. PACKER STATE OF UTAH 6.6.07

REVISION # DATE:

CONSTRUCTION DOCUMENTS
FILE NAME: S101
PLOT SCALE: 1/8"=1'-0"
DRAWN BY: JRS
CHECKED BY: SP
DATE: 02/05/07

S101

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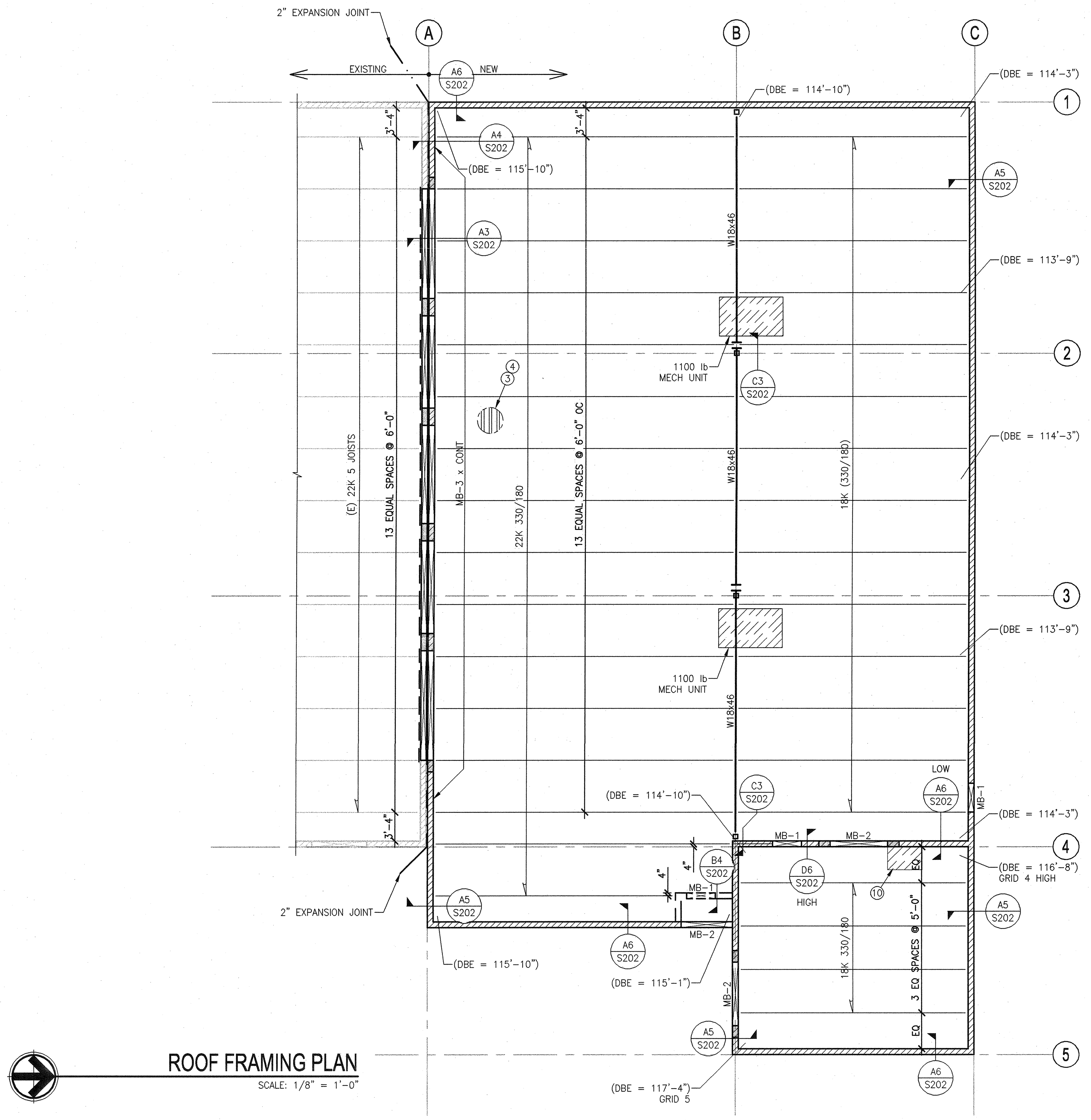

ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES (ROOF FRAMING):

◯ CIRCLED NOTES ARE KEYED ON PLAN.

1. SEE STRUCTURAL NOTES ON **SHEET S001** FOR ADDITIONAL INFORMATION.
2. DECK BEARING ELEVATION SHOWN ON PLAN THUS: (DBE = xxx'-xx") ADJUST TOP OF FRAMING TO PROVIDE UNIFORM SLOPE BETWEEN ELEVATIONS SHOWN ON PLAN.
3. ROOF DECK SHALL BE 1½" VERCO TYPE HSB-36, 20 GAUGE, PAINTED, OR EQUIVALENT. PLACE DECK 3 SPANS CONTINUOUS, MINIMUM.
4. DECK ATTACHMENT AS FOLLOWS:
   A. DECK SPAN PERPENDICULAR TO SUPPORTS:
      (7) ¾"ø PUDDLE WELDS
   B. DECK SPAN PARALLEL TO SUPPORTS:
      ¾"ø PUDDLE WELDS @ 12" OC
   C. SEAMS:
      1½" TOP SEAM WELDS @ 24" OC
5. ALL CONTINUOUS DECK ANGLES TO BE FULL DEVELOPMENT BUTT WELDED AT SPLICES.
6. SEE **A2/S202** FOR TYPICAL ROOF OPENING DETAIL.
7. SEE DETAIL **B5/S202** FOR MASONRY BEAM SCHEDULE INDICATING SIZE & REINFORCEMENT.
8. SEE DETAIL **B1/S201** FOR CONTROL JOINTS IN MASONRY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
9. SEE DTL B3/S202 FOR DECK SUPPORT AT ROOF PIPE/DRAINS.
10. ROOF HATCH. SEE ARCHITECTURAL DRAWINGS.

LEGEND:

(symbol)	STEEL ROOF DECK, W/ SPAN DIRECTION INDICATED
MW-#	MASONRY WALL (SHADED IF GROUTED SOLID)
MB-#	MASONRY BEAM
(symbol)	BEAM
(symbol)	JOIST
(symbol)	(E) BEAM OR GIRDER
(symbol)	(E) JOIST
(symbol)	STEEL LINTEL IN (E) MASONRY WALL
□	STEEL COL

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ROOF FRAMING PLAN

LICENSED PROFESSIONAL ENGINEER
No. 191304
SHAUN A. PACKER
STATE OF UTAH
6.6.07

REVISION # DATE:

CONSTRUCTION DOCUMENTS
FILE NAME: S102
PLOT SCALE: 1/8"=1'-0"
DRAWN BY: JRS
CHECKED BY: SP
DATE: 02/05/07

S102

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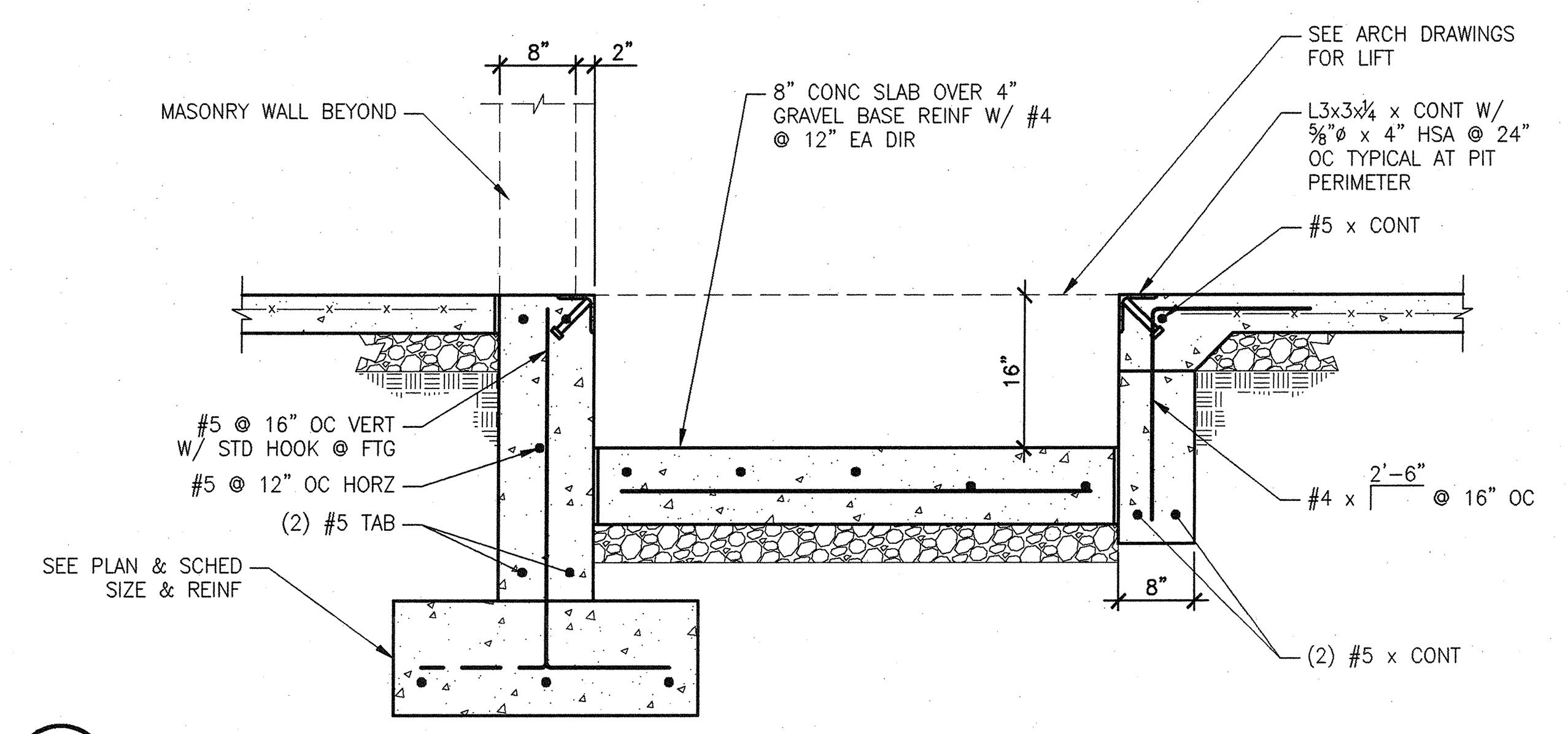
E1 DETAIL
SCALE: 3/4" = 1'-0"

E2 DETAIL
SCALE: 3/4" = 1'-0"

E3 DETAIL
SCALE: 3/4" = 1'-0"

E4 DETAIL
SCALE: 3/4" = 1'-0"



C3
SCALE: 3/4" = 1'-0"

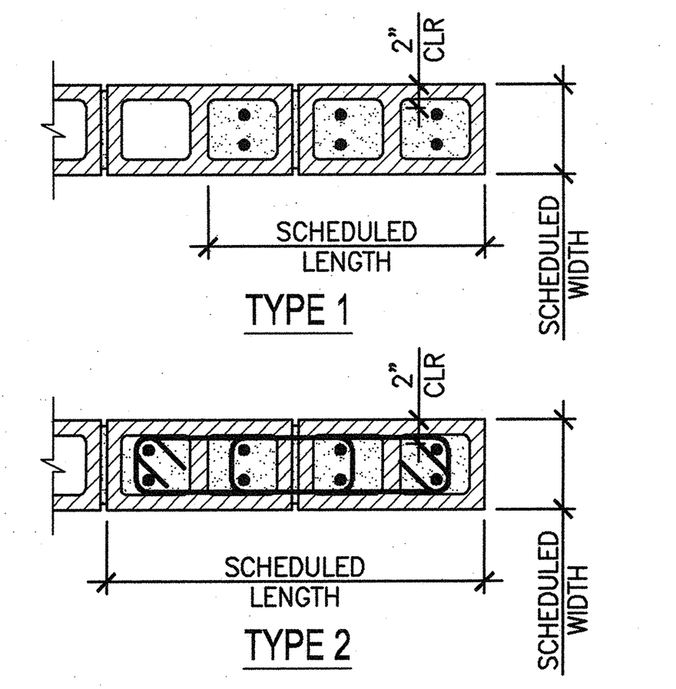
E5 DETAIL
SCALE: 3/4" = 1'-0"

MASONRY COLUMN SCHEDULE					
MARK	LENGTH	WIDTH	REINFORCEMENT		TYPE
			VERTICAL	HORIZONTAL TIES	
MC-1	16"	WALL	(4) #5	–	1
MC-2	24"	WALL	(6) #5	#3 @ 8" OC	2

MASONRY COLUMN NOTES:

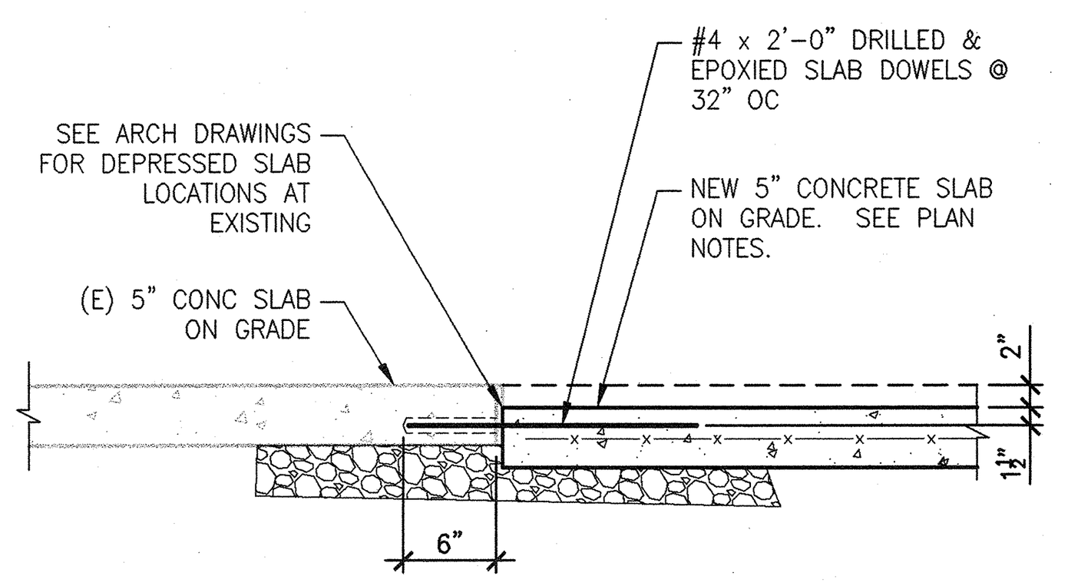
1. HORIZONTAL WALL REINFORCEMENT SHALL RUN CONTINUOUS THROUGH MASONRY COLUMNS.
2. GROUT ALL REINFORCED CELLS AND VOIDS SOLID.
3. MASONRY COLUMNS REINFORCING SHALL EXTEND FULL HEIGHT FROM ROOF DOWN TO FOUNDATION. DOWEL VERT REINF INTO FOUNDATIONS.
4. SEE ARCHITECTURAL DRAWINGS FOR SPECIAL COURSING ARRANGEMENTS.

E6 DETAIL
SCALE: 3/4" = 1'-0"

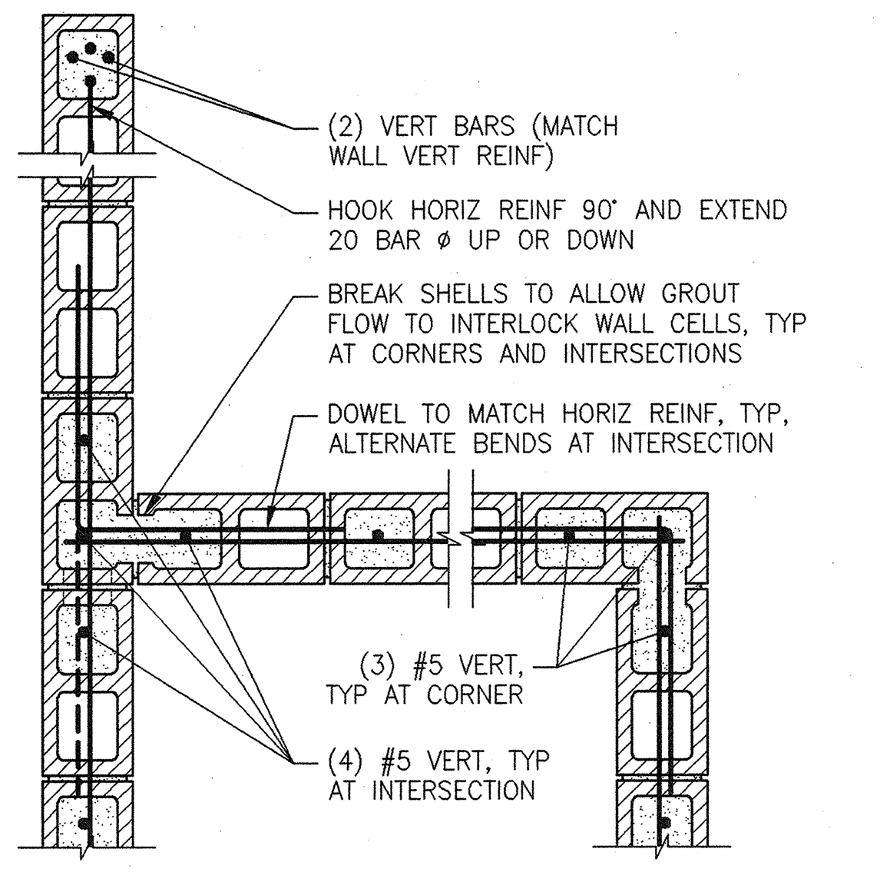


D5 MASONRY COLUMN SCHEDULE
5310.00 SCALE: NONE

D1 DETAIL
SCALE: 3/4" = 1'-0"



D2 DETAIL
SCALE: 3/4" = 1'-0"



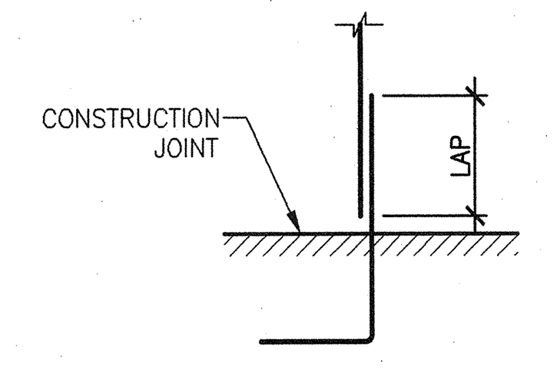
REINFORCING LAP LENGTH SPLICE SCHEDULE																
	TENSION BARS "Ld"															
BAR SIZE	f'c=3000psi				f'c=4000psi				f'c=5000psi				f'c=6000psi			
	REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	17"	22"	22"	28"	15"	19"	19"	24"	13"	17"	17"	22"	12"	16"	16"	21"
#4	22"	29"	29"	38"	18"	25"	26"	33"	17"	22"	23"	30"	16"	20"	21"	27"
#5	28"	36"	37"	48"	24"	31"	32"	42"	21"	28"	24"	37"	20"	25"	26"	34"
#6	33"	43"	45"	58"	29"	37"	39"	50"	26"	33"	35"	45"	24"	30"	32"	41"
#7	48"	63"	63"	82"	42"	55"	55"	71"	37"	48"	48"	62"	34"	45"	45"	58"
#8	55"	72"	72"	93"	48"	63"	63"	81"	42"	55"	55"	71"	39"	51"	51"	66"
#9	62"	81"	81"	105"	54"	71"	71"	92"	48"	62"	62"	80"	44"	57"	57"	74"
#10	70"	91"	91"	118"	61"	79"	79"	103"	54"	70"	70"	90"	50"	65"	65"	84"
#11	78"	101"	101"	131"	68"	88"	88"	114"	60"	77"	77"	100"	55"	72"	72"	93"

NOTES:
1. THE SCHEDULE SHOWN APPLIES TO REG WT CONCRETE WITH 60ksi GRADE REINFORCING BARS.
2. TOP BARS ARE HORIZONTAL BARS WITH 12" (OR MORE), OF FRESH CONCRETE CAST BELOW THE BARS.
3. CLASS "A" SPLICES SHALL BE USED WHEN 50% (OR LESS) OF BARS SPLICED WITHIN LAP.
4. CLASS "B" SPLICES SHALL BE USED FOR ALL ELSE, TYPICALLY WITH SHEARWALLS, COLUMNS, BEAMS & SLABS.
5. FOR EPOXY COATED BARS, INCREASE LAP LENGTHS AS FOLLOWS:
   TOP BARS: Ld x 1.7
   REGULAR BARS: Ld x 1.5
6. FOR BUNDLED BARS, INCREASE LAP LENGTHS AS FOLLOWS:
   BUNDLED BARS, THREE OR LESS: Ld x 1.2
   BUNDLED BARS, FOUR OR MORE: Ld x 1.33
   INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
7. LAP SPLICES ARE NOT ALLOWED FOR TIES AND STIRRUPS

MASONRY REBAR SPLICE SCHEDULE									
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
MASONRY SINGLE MAT	1'-7"	2'-1"	2'-7"	4'-4"	5'-1"	6'-2"	7'-10"	MECH	MECH
MASONRY DOUBLE MAT	1'-7"	2'-4"	3'-6"	6'-10"	9'-1"	12'-5"	15'-4"	MECH	MECH

MASONRY REBAR SPLICE NOTES:

1. MECH = MECHANICAL SPLICE REQUIRED.
2. USE #6 BAR IN 10" OR LARGER WALLS ONLY.
3. f'm = 1500 PSI, fy = 60,000 PSI
4. DOUBLE MAT REINFORCEMENT SHALL HAVE 2" CLEARANCE BETWEEN FACE OF WALL AND EDGE OF VERTICAL BAR.



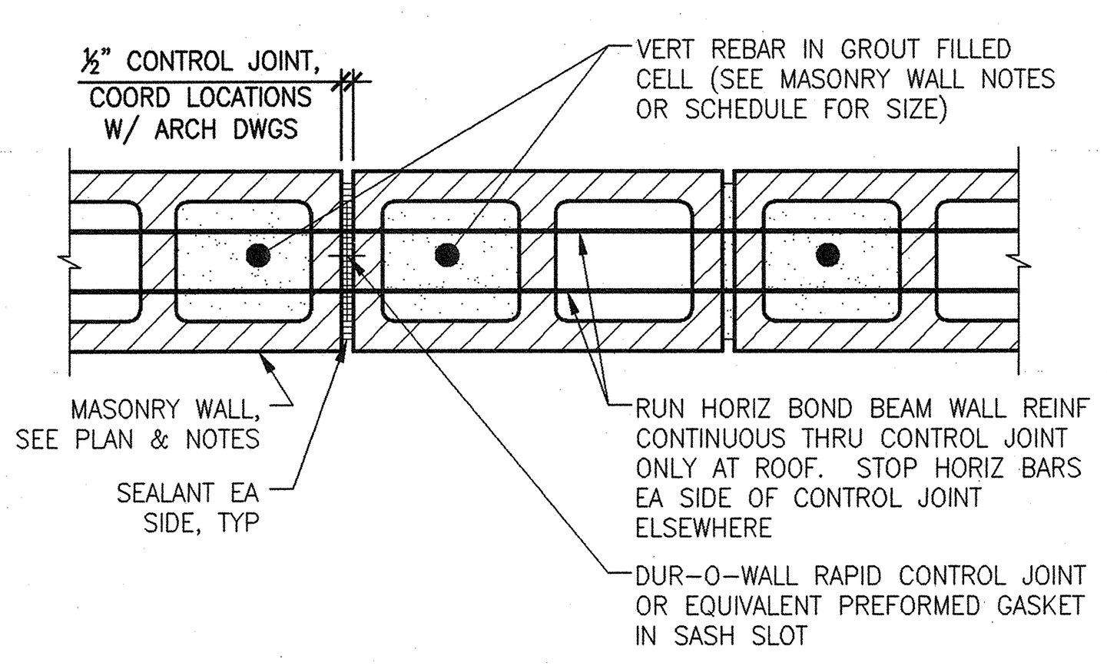
REBAR DEVELOPMENT DETAIL

C1 DETAIL
SCALE: 3/4" = 1'-0"

C2
5252_03 SCALE: 3/4" = 1'-0"

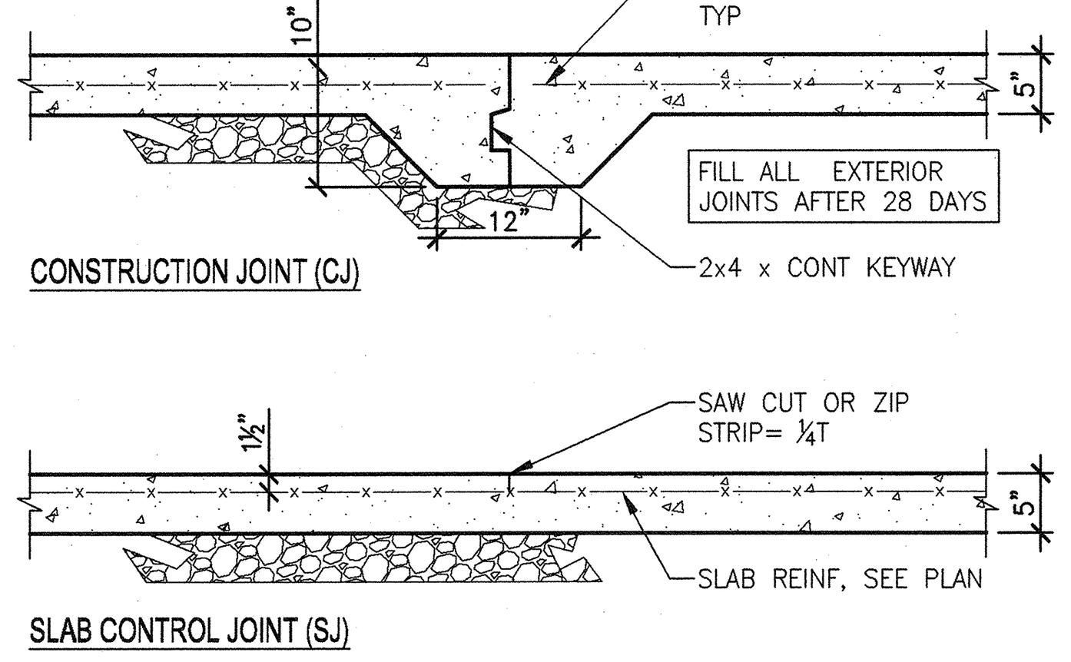
C3
3747_01 Reinforcing Lap Splice Schedule SCALE: NONE

C5
SCALE: NONE

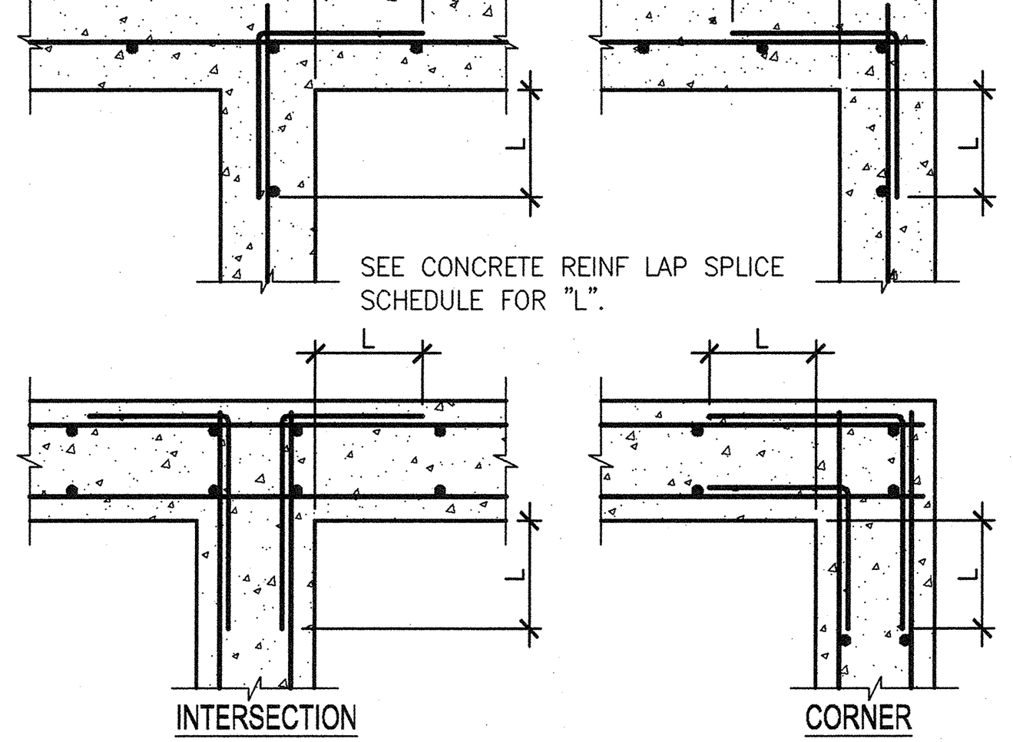


NOTE: WHERE CONTROL JOINT OCCURS AT EDGE OF OPENINGS, ALL WALL BEAM REINF AND GROUT MUST BE CONTINUOUS THROUGH JOINT. USE OPEN END UNITS OR BREAK OUT TOP HALF OF SHELL FOR GROUT FLOW AT JOINT OF BEAM. DELETE PREFORMED GASKET FOR HEIGHT OF BEAM.

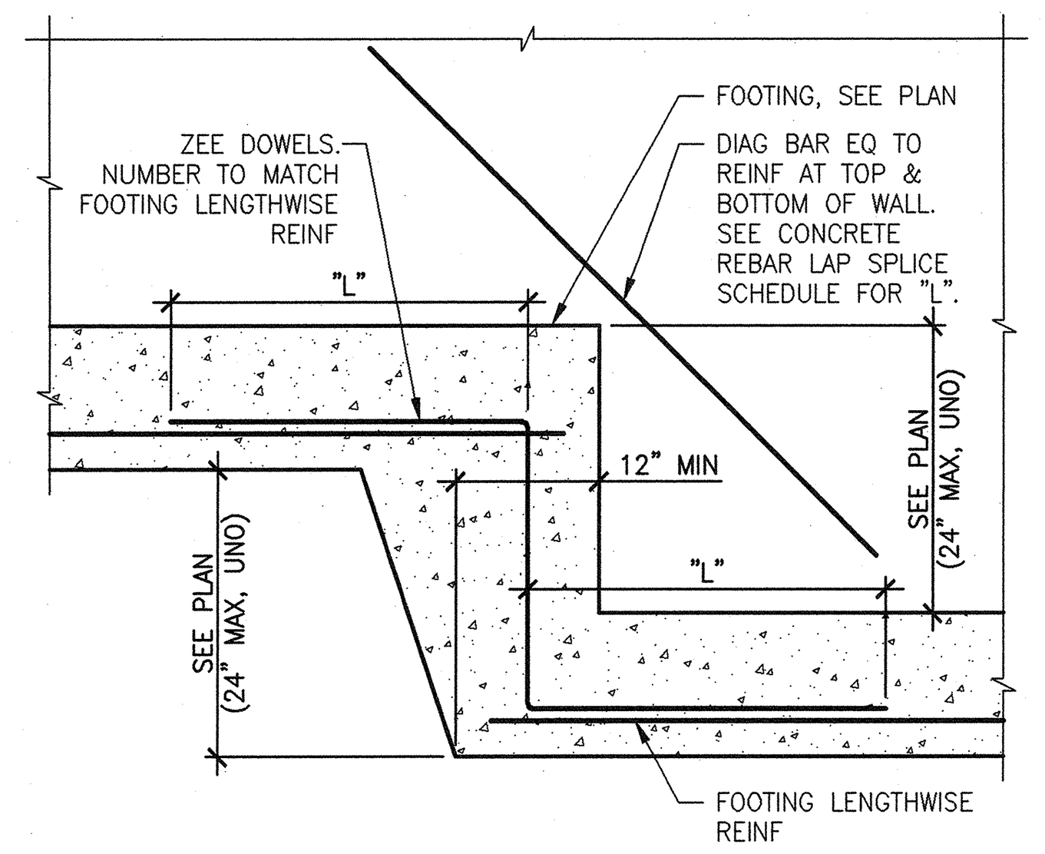
B1 TYP MASONRY CONTROL JOINT
5257_01 SCALE: NONE



B2 TYPICAL SLAB JOINT DETAILS
3600.02 SCALE: NONE

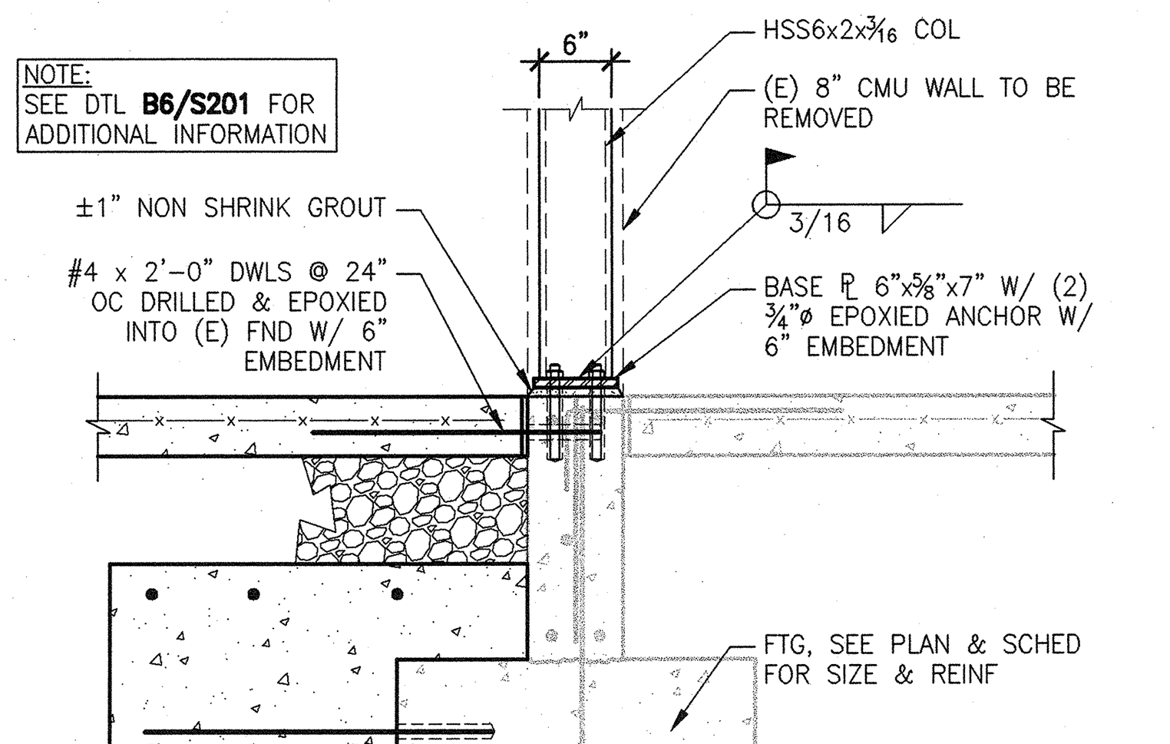


B3 WALL INTERSECTION DOWELS
3200.02 SCALE: NONE

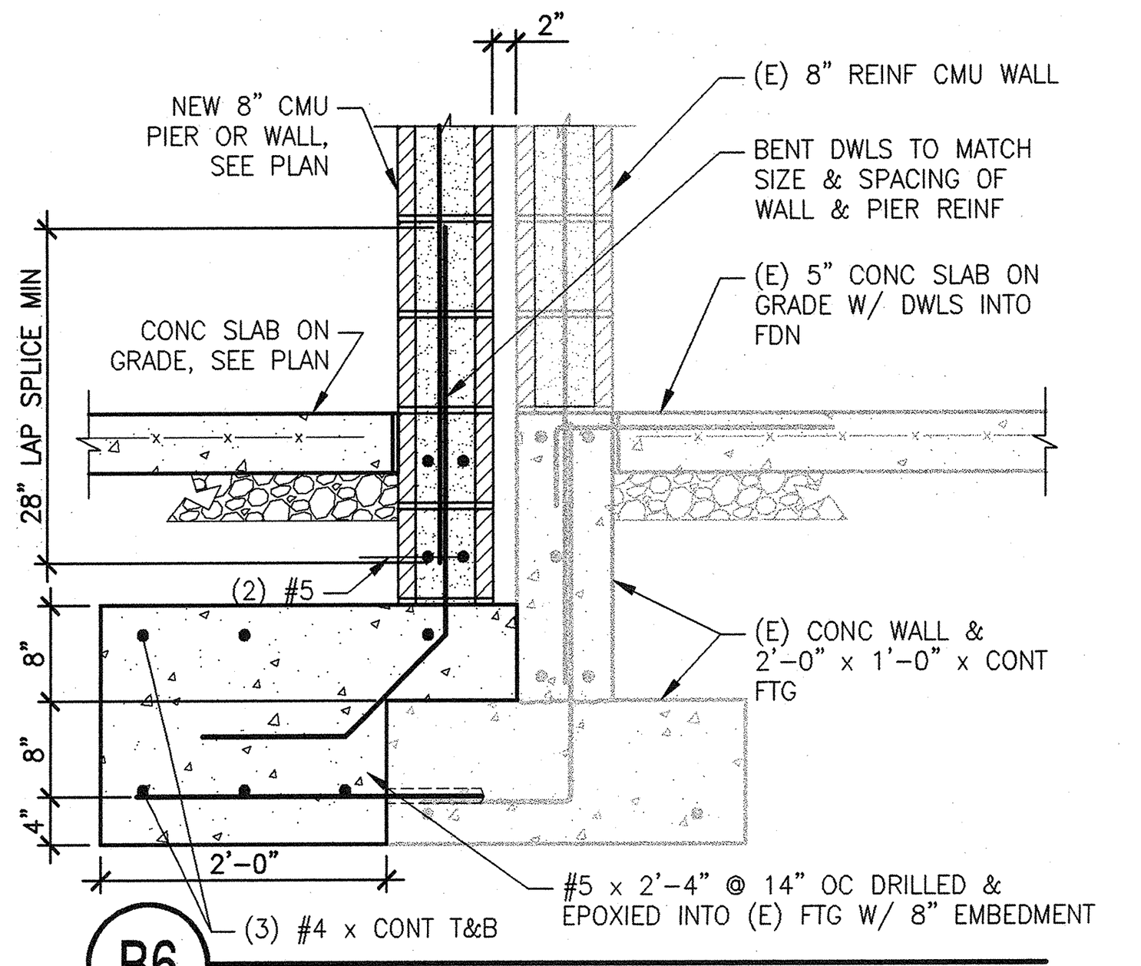


B4 FOOTING STEP (CONC FDTN)
3231.02 SCALE: NONE

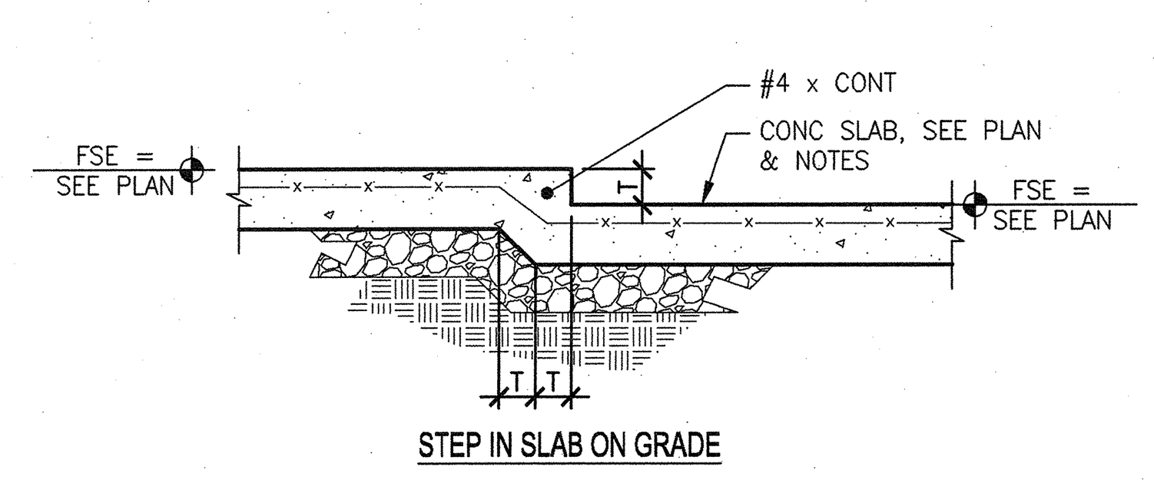
NOTE:
SEE DTL **B6/S201** FOR ADDITIONAL INFORMATION



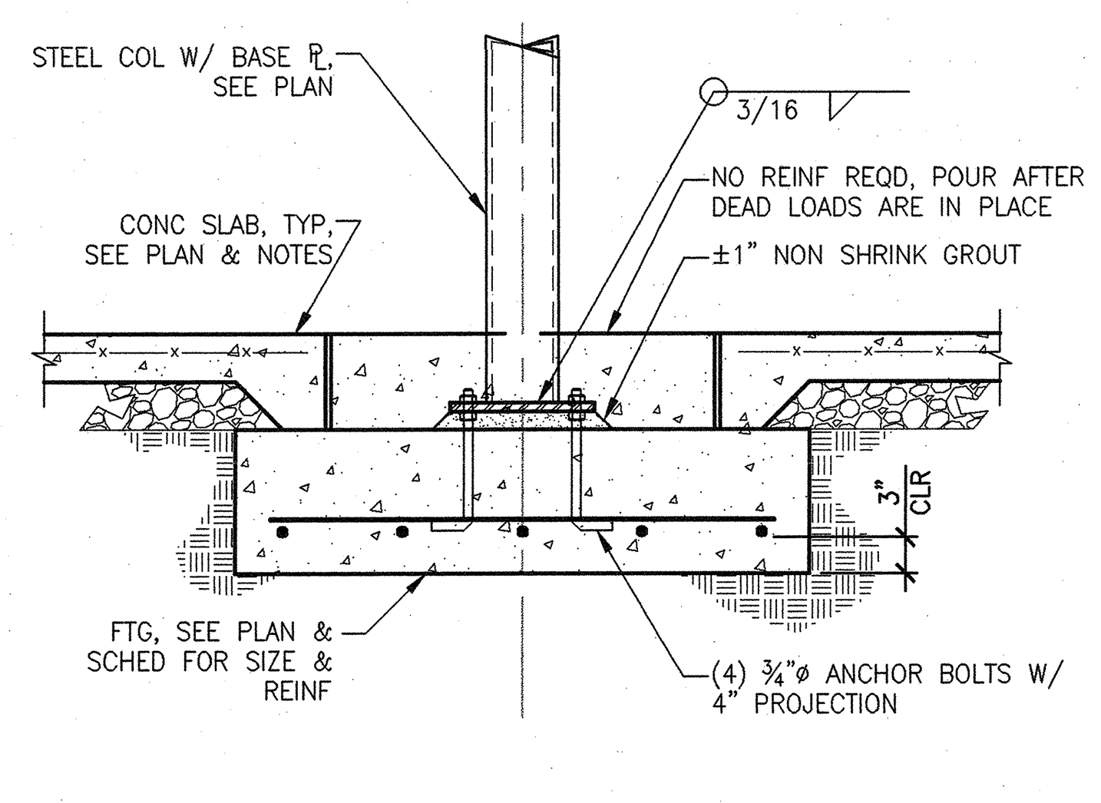
B5 DETAIL
SCALE: 3/4" = 1'-0"



B6
SCALE: 3/4" = 1'-0"

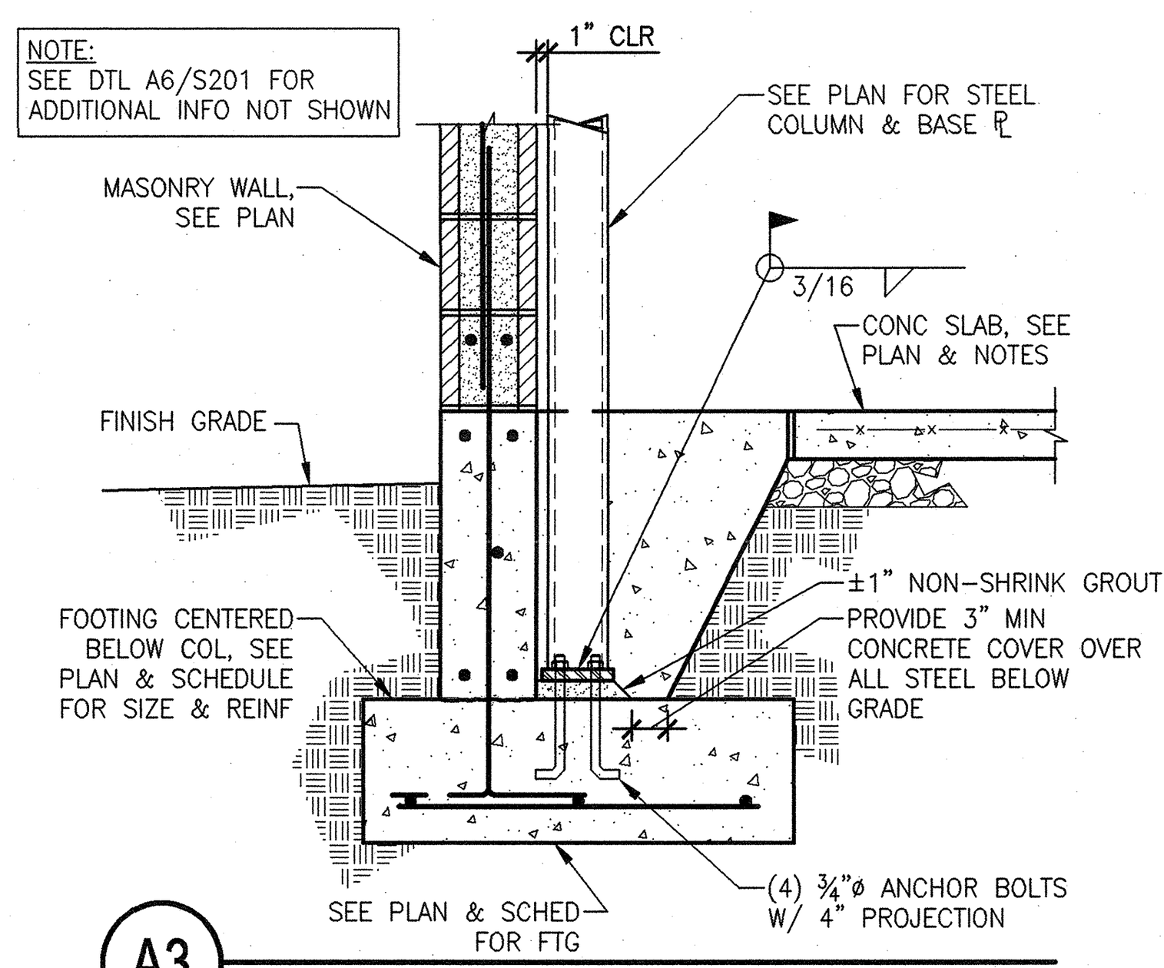


A1 SLAB STEP DETAIL
3677_05 C-SLBSTP SCALE: 3/4" = 1'-0"

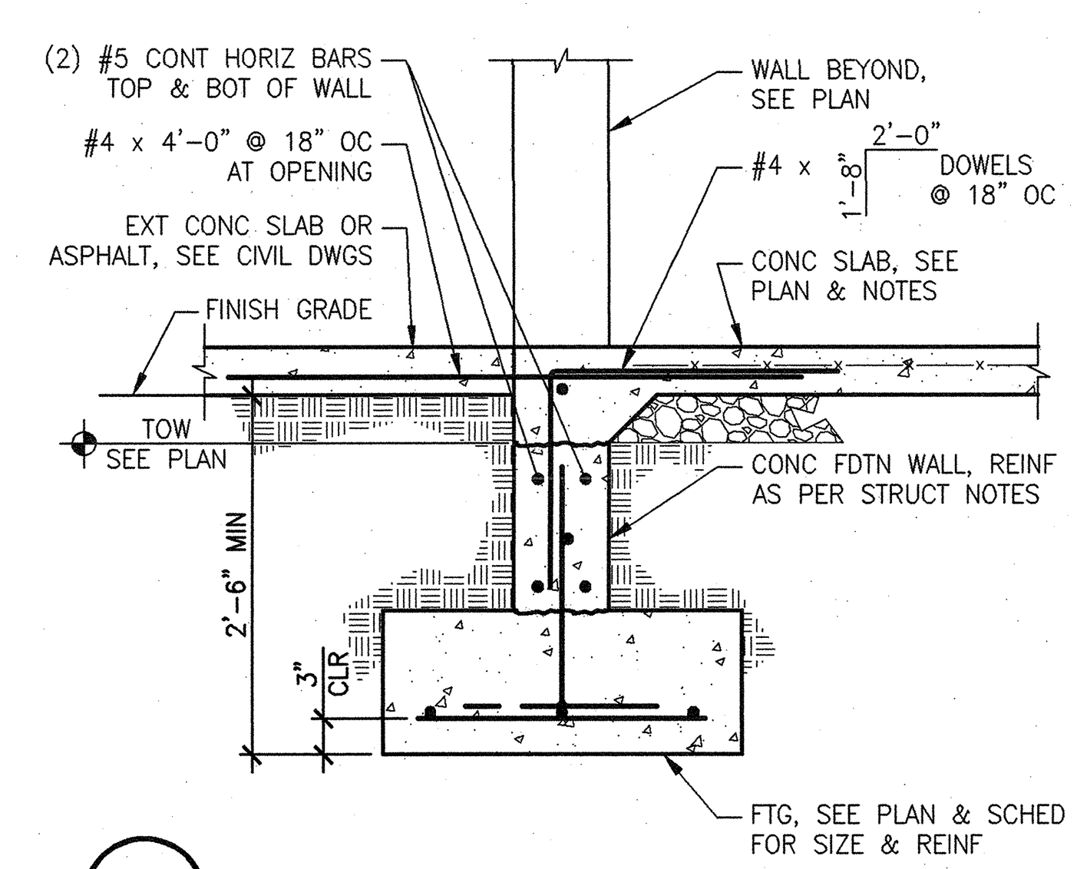


A2
4331.01 SCALE: 3/4" = 1'-0"

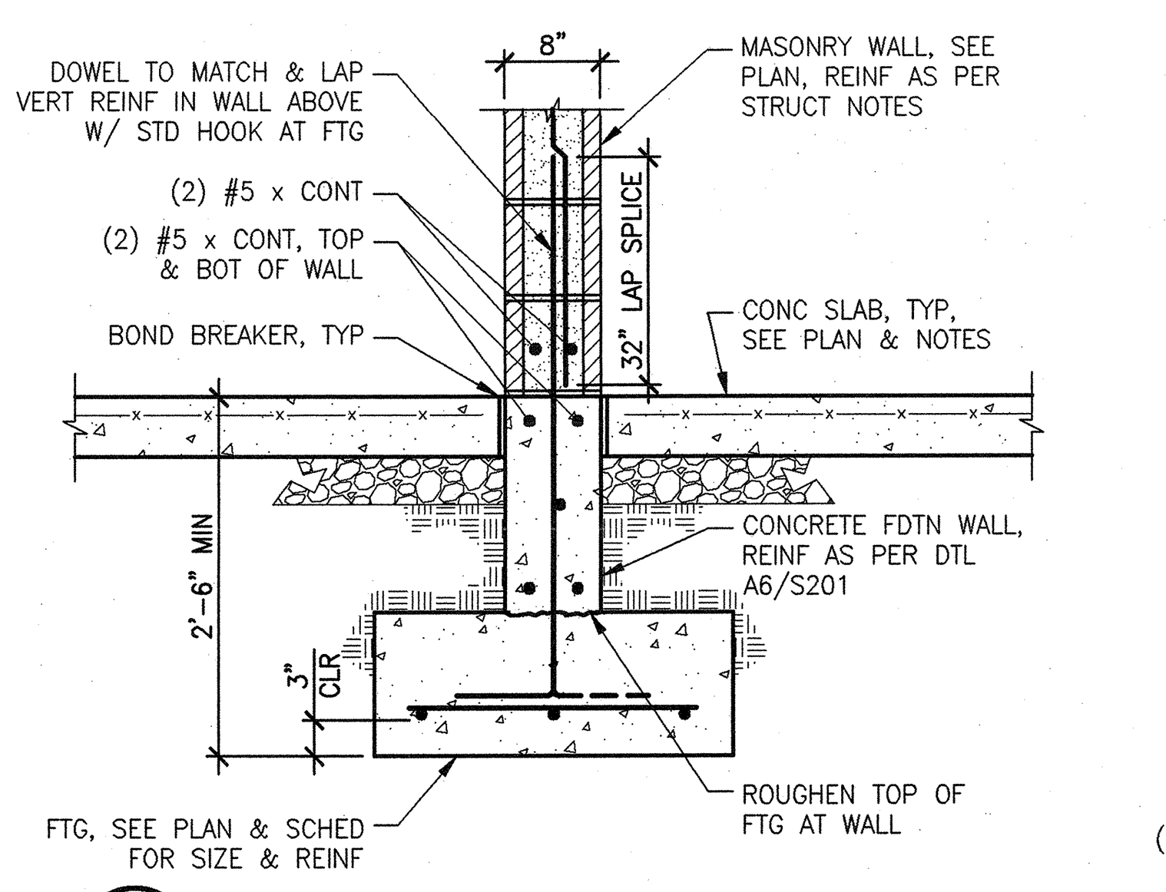
NOTE:
SEE DTL A6/S201 FOR ADDITIONAL INFO NOT SHOWN



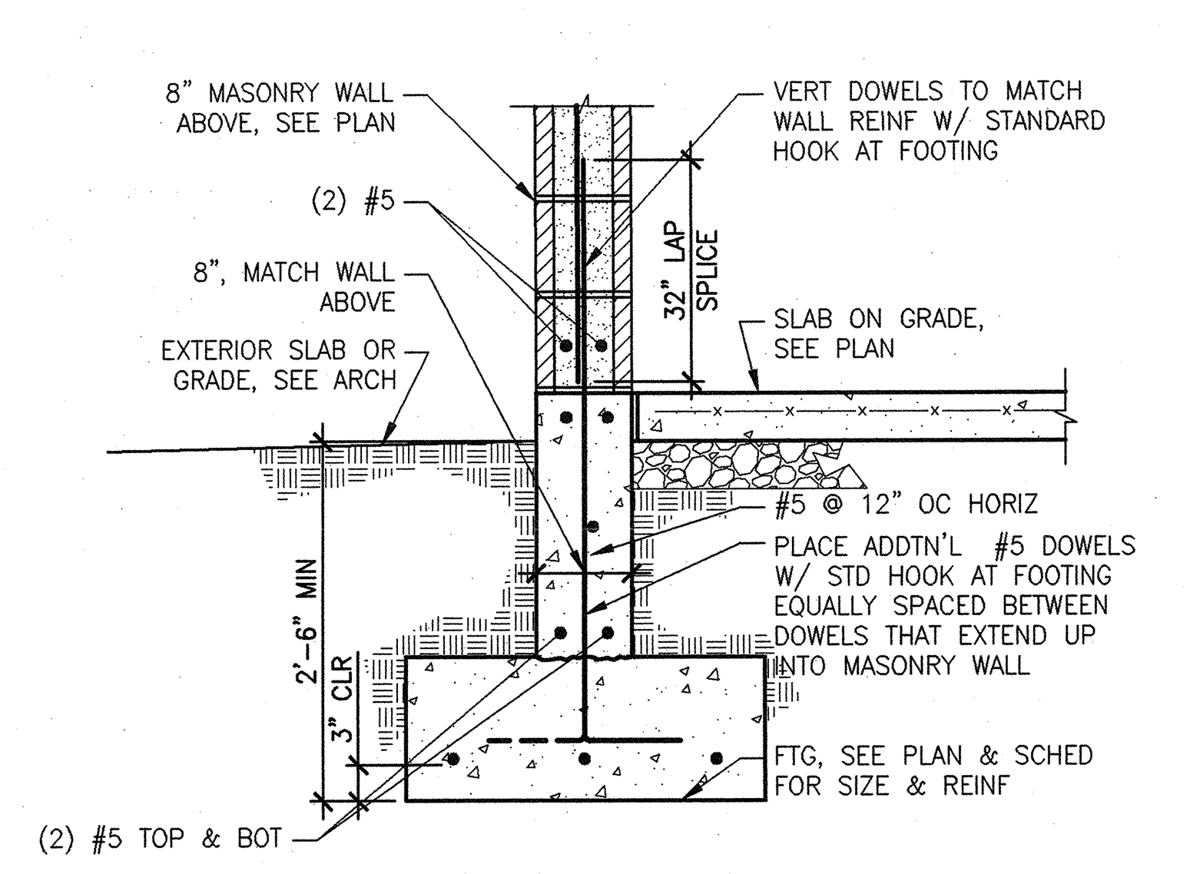
A3
3143_03 SCALE: 3/4" = 1'-0"



A4
3632.02 SCALE: 3/4" = 1'-0"



A5
5232.04 SCALE: 3/4" = 1'-0"



A6
SCALE: 3/4" = 1'-0"

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REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION
DPT OF ALCOHOLIC BEVERAGE CONTROL
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FRANK N MURDOCK JR Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STRUCTURAL DETAILS

LICENSED PROFESSIONAL ENGINEER
No. 191304
SHAUN A. PACKER
STATE OF UTAH

REVISION # DATE:

CONSTRUCTION DOCUMENTS
FILE NAME: S201
PLOT SCALE: 3/4"=1'-0"
DRAWN BY: JRS
CHECKED BY: SP
DATE: 02/05/07

S201

X:\Project Files\2006\06xxx DABC Redwood\Drawings\S201.dwg, 30x42, 6/6/2007 8:26:38 AM

E1 DETAIL
SCALE: 3/4" = 1'-0"

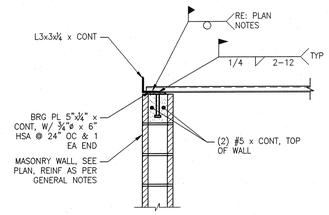
E2 DETAIL
SCALE: 3/4" = 1'-0"

E3 DETAIL
SCALE: 3/4" = 1'-0"

E4 DETAIL
SCALE: 3/4" = 1'-0"

E5 DETAIL
SCALE: 3/4" = 1'-0"

E6 DETAIL
SCALE: 3/4" = 1'-0"



D1 DETAIL
SCALE: 3/4" = 1'-0"

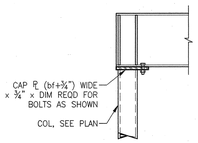
D2 DETAIL
SCALE: 3/4" = 1'-0"

D3 DETAIL
SCALE: 3/4" = 1'-0"

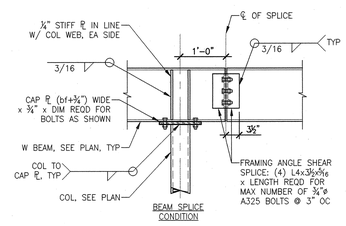
D4 DETAIL
SCALE: 3/4" = 1'-0"

D5 DETAIL
SCALE: 3/4" = 1'-0"

D6 5246_08 SCALE: 3/4" = 1'-0"



END CONDITION

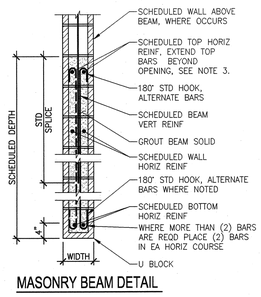


BEAM SPLICE CONDITION

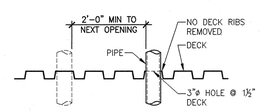
MASONRY BEAM SCHEDULE						
MARK	WIDTH	DEPTH	REINFORCEMENT			NOTES
			BOTTOM HORIZONTAL	TOP HORIZONTAL	VERTICAL	
MB-1	WALL	16"	(2) #5	–	MATCH WALL VERTS	TYPICAL UNO
MB-2	WALL	24"	(2) #5	(2) #5	#4 x ⧵⧸ @ 16"	–
MB-3	WALL	40"	(2) #5	(2) #5	#4 x ⧵⧸ @ 16"	

MASONRY BEAM NOTES:

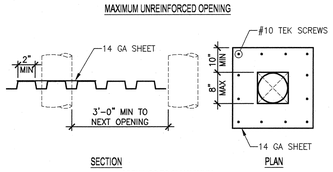
1. VERTICAL WALL REINFORCEMENT (SIZE AND SPACING) SHALL BE USED, UNO. VERTICAL REINFORCEMENT ENDS WITH STD MASONRY HOOK AND LAP ABOVE BEAM. WHERE NO WALL OCCURS ABOVE BEAM OR LAP IS NOT POSSIBLE, PROVIDE 180° STD HOOK AT TOP.
2. GROUT BEAMS SOLID FOR DEPTH SHOWN IN SCHEDULE, PLUS AS PER DETAILS, STRUCURAL NOTES AND/OR WALL SCHEDULE.
3. TOP BARS SHALL EXTEND THE GREATER OF SUPPORTING COL LENGTH, 24", OR 48 BAR STD LAP BEYOND FACE OF SUPPORTS AND BE SPLICED WHEN NECESSARY AT MID SPAN. BOTTOM BARS SHALL EXTEND 24" INTO SUPPORTS AND BE SPLICED OVER SUPPORTS WHEN NECESSARY. WHERE THE EXTENSIONS NOTED CANNOT BE PROVIDED, HOOK BARS INTO SUPPORTS.
4. GROUT SIDES OF OPENING SOLID 1"/FT OF OPENING WIDTH, MINIMUM ONE 8" CELL FOR UP TO 8'-0" SPAN, (2) CELLS FOR UP TO 16'-0" SPAN, ETC, UNO. PROVIDE ONE VERTICAL BAR IN EACH GROUTED CELL. SEE PLAN AND SCHEDULE WHERE SPECIAL MASONRY COLS OCCUR AT JAMBS, BELOW BEAM BEARING OR OTHER LOCATIONS.
5. AT MECHANICAL OR OTHER OPENINGS IN WALLS USE MASONRY BEAMS OF SIMILAR SIZE AND REINFORCING AS SHOWN IN THOSE WALLS FOR EQUIVALENT WIDTH OPENINGS, UNO. NO MECHANICAL OR OTHER OPENINGS SHALL BE PLACED BELOW BEAM BEARING OR THROUGH SOLID GROUTED MASONRY BEAM DEPTH.
6. NO DUCTS, OPENINGS, OR PENETRATIONS SHALL OCCUR THROUGH BEAMS UNLESS NOTED ON STRUCTURAL DRAWINGS.
7. MASONRY WALLS ABOVE BEAMS, WHERE OCCUR SHALL HAVE MINIMUM REINFORCING AS PER STRUCTURAL NOTES, UNO.
8. REINFORCING INDICATED IN BEAM SCHEDULE IS IN ADDITION TO STANDARD WALL HORIZONTAL AND VERTICAL REINFORCING.



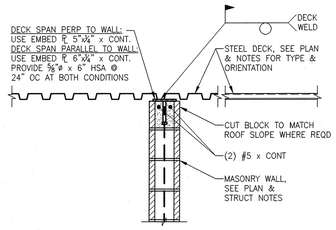
MASONRY BEAM DETAIL



MAXIMUM UNREINFORCED OPENING



SECTION PLAN
OPENINGS TO 8' MAXIMUM



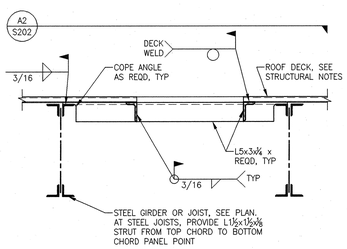
B1 DETAIL
SCALE: 3/4" = 1'-0"

B2 DETAIL
SCALE: 3/4" = 1'-0"

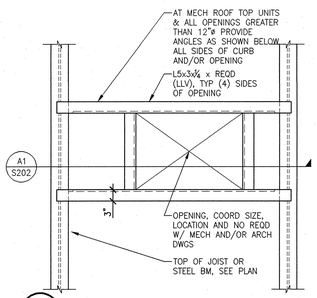
B3 4677_01 SCALE: NONE

B4 5246_06 SCALE: 3/4" = 1'-0"

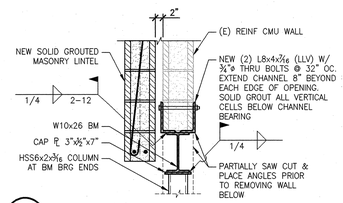
B5 MASONRY BEAM SCHEDULE
5410.00 SCALE: NONE



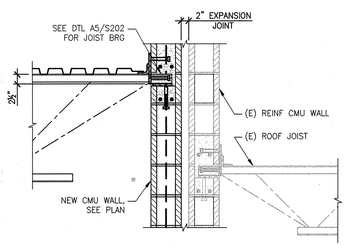
A1 4546_02 SCALE: NONE



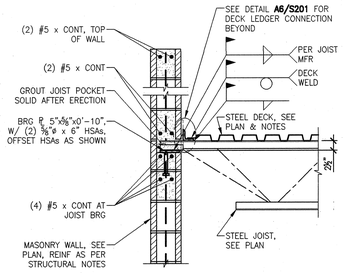
A2 4546_03 SCALE: NONE



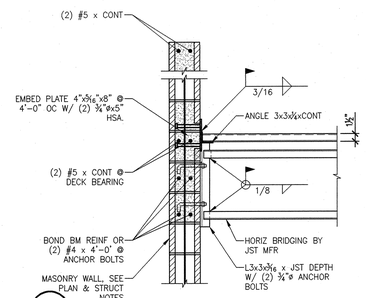
A3 5243.01 LINTEL SCALE: 3/4" = 1'-0"



A4 SCALE: 3/4" = 1'-0"



A5 4552.01 SCALE: 3/4" = 1'-0"



A6 5246_04 Bridging To Wall SCALE: 3/4" = 1'-0"

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REDWOOD ROAD ABC STORE - REMODEL AND EXPANSION

DPT OF ALCOHOLIC BEVERAGE CONTROL
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STRUCTURAL DETAILS

LICENSED PROFESSIONAL ENGINEER
No. 191304
SHAUN K. ANDERSEN
STATE OF UTAH

REVISION # DATE:

CONSTRUCTION DOCUMENTS
FILE NAME: S202
PLOT SCALE: 3/4"=1'-0"
DRAWN BY: JRS
CHECKED BY: SP
DATE: 02/05/07

S202

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PIPING LEGEND

Item	Symbol	Item	Symbol
GATE VALVE		CHILLED WATER SUPPLY	CHS
OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN	CHR
BALL VALVE		CONDENSER WATER SUPPLY	CWS
BUTTERFLY VALVE		CONDENSER WATER RETURN	CWR
MOTORIZED BUTTERFLY VALVE	M	HEATING WATER SUPPLY	HWS
HEAT TRACING		HEATING WATER RETURN	HWR
DEIONIZED WATER	DI	WATER TREATMENT	WT
CHECK VALVE		FIRE DEPT. HORN & LIGHT	
SOLENOID VALVE		HOT GAS	HG
AUTOMATIC CONTROL VALVE (2-WAY)		FLEXIBLE PIPE CONNECTION	
AUTOMATIC CONTROL VALVE (3-WAY)		REDUCED PRESSURE BACKFLOW PREVENTER	RPBP
PRESSURE REDUCING VALVE		DIRECTION OF FLOW	
P & T RELIEF VALVE		ELBOW DOWN (DN)	
AIR VENT (AUTOMATIC)		ELBOW UP	
REFRIGERANT LIQUID	RL	PIPE CAP	
REFRIGERANT SUCTION	RS	TEE DOWN	
THERMAL EXPANSION VALVE		UNION	
STRAINER		DOMESTIC COLD WATER	
CIRCUIT SETTER		DOMESTIC HOT WATER	
FLOW METER		HOT WATER CIRC.	
PET COCK OR GAUGE COCK		TEMPERED WATER	T
PRESSURE GAUGE W/GAUGE COCK		SANITARY (PLBG) VENT	
THERMOMETER		SANITARY SEWER ABOVE GRADE	
TEMPERATURE & PRESSURE TEST PLUG		SANITARY SEWER BELOW GRADE	
IN-LINE PUMP		DRAIN	D
FLOW SWITCH	F	ROOF DRAIN PIPING	RD
AQUASTAT	A	OVERFLOW DRAIN PIPING	OD
HOSE BIBB OR SILLCOCK		STORM DRAIN PIPING ABOVE GRADE	SD
VACUUM	V	STORM DRAIN PIPING BELOW GRADE	SD
FLOOR DRAIN		FIRE SERVICE	F
FLOOR SINK		NATURAL GAS	G
HOT GAS BYPASS	HGBP	COMPRESSED AIR	CA
WALL CLEANOUT OR CLEANOUT		VENT THROUGH ROOF	
FLOOR OR GRADE CLEANOUT		STEAM	S
GRADE CLEANOUT W/ CONCRETE PAD		CONDENSATE	C

MECHANICAL LEGEND

- RETURN OR EXHAUST DUCT DOWN
- RETURN OR EXHAUST DUCT UP
- SUPPLY AIR DUCT DOWN
- SUPPLY AIR DUCT UP
- SPIN-IN FITTING W/MVD
- FLEXIBLE DUCT
- CEILING SLOT DIFFUSER
- CEILING DIFFUSER
- CEILING EXHAUST GRILLE
- CEILING GRILLE
- ACCESS PANEL
- MANUAL VOLUME DAMPER
- MOTORIZED DAMPER (M)
- FIRE DAMPER (F)
- COMBINATION FIRE/SMOKE DAMPER (FS)
- THERMOSTAT OR TEMP SENSOR (T)
- POINT OF CONNECTION TO EXISTING
- DETAIL TAG — DETAIL NO. / DRAWING NO.
- KEYED NOTE — NOTE NO.
- SECTION CUT LINE — SECTION NO. / DRAWING NO.
- CONTROL TRANSFORMER (TRX)
- LOW PRESSURE DUCT W/ TURNING VANES
- BALANCER TO TURN ALL SLOTS IN DIFFUSER FACING DIRECTION NOTED

GENERAL NOTES

1. (symbol) INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL.
2. (E) INDICATES EXISTING. (N) INDICATES NEW MATERIAL.
3. COORDINATE ALL FIRE SPRINKLER, DIFFUSER AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS.
4. THIS CONTRACTOR SHALL NOT SHUT-OFF/ PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING ALL DOWNTIME WITH THE OWNER'S PERSONAL.
5. ALL RIGID ROUND DUCTWORK SHALL RECEIVE 1-1/2" - 2.0 LBS/CU.FT. FIBERGLASS DUCT WRAP. ALL RECTANGULAR DUCT SHALL RECEIVE 1" - 1.5 LBS/CU.FT. DUCT LINER, TRIM AND SEAL JOINTS W/ MYLAR LINING. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-1/2" THICK INSULATED AND A MAXIMUM OF 10 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. MEDIUM PRESSURE FLEXIBLE DUCT TO BE INSULATED, RATED FOR 6" W.C. AND SHALL BE STRECHED OUT TO PREVENT ANY KINKS OR OFFSETS (3 FT. MAX. LENGTH).
6. DUCTWORK AND PIPE ROUTING IS APPROXIMATE, DIAGRAMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF ALL WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
7. THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH ALL NEW AND EXISTING MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL MEMBERS.
8. THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO COMMENCING NEW WORK. NO ADDITIONAL COST WILL BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING MECHANICAL CONDITIONS.
9. THIS CONTRACTOR SHALL USE SMACNA STANDARDS FOR HIGH PRESSURE DUCT CONSTRUCTION OF SUPPLY DUCTWORK UPSTREAM OF VAV BOX - SEAL CLASS "A". ALL OTHER DUCTWORK SHALL BE CONSTRUCTED ACCORDING TO SMACNA STANDARDS FOR LOW PRESSURE DUCT CONSTRUCTION - SEAL CLASS "B".
10. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL CURRENT LOCAL CODES.
11. THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION OF THESE SAME ITEMS.
12. ALL VAV BOXES AND DIFFUSERS MUST BE BALANCED PER PLAN. PROVIDE BALANCE REPORT TO ENGINEER.
13. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.

PLUMBING FIXTURE CONNECTION SCHEDULE

	DESCRIPTION	CONNECTION SIZE: COLD WATER	HOT WATER	WASTE	VENT	SPECIFICATIONS
WC-1	WATER CLOSET (HANDICAP)	¾"	N/A	3"	2½"	KOHLER K-3544-RA, SEAT: OLSONITE 95 COMFORT CURVE, COLOR: WHITE. PROVIDE SUPPLIES AND STOP. SET RIM AT 17½" AFF.
WC-2	WATER CLOSET (HANDICAP)	¾"	N/A	3"	2½"	KOHLER K-3544, SEAT: OLSONITE 95 COMFORT CURVE, COLOR: WHITE. PROVIDE SUPPLIES AND STOP. SET RIM AT 17½" AFF.
L-1	LAVATORY	½"	½"	1½"	1¼"	KOHLER: GREENWICH WALL MOUNT K-2031-N W/ ACCESSORY MODEL #102G FOR HANDICAP INSTALLATION & K-8998 TRAP FAUCET: SYMMONS ULTRA SENSE S-6080-G W/ GRID DRAIN POWER HYDROGUARD SERIES 480 TEMPERING VALVE.
HB-1	HOSE BIBB	¾"	N/A	N/A	N/A	WOODFORD: MODEL 74P-¾
FD-1	FLOOR DRAIN	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 2005 w/ A05NB NICKEL/BRONZE STRAINER AND TRAP PRIMER
FS-1	FLOOR SINK	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 3140-12-Y W/ NICKEL/BRONZE TOP/ ½ GRATE AND TRAP PRIMER
SC-1	SILLCOCK	¾	N/A	N/A	N/A	J. R. SMITH 5509QT (w/ INTEGRAL VACUUM BREAKER AND STAINLESS STEEL BOX)
WCO-1	WALL CLEAN OUT	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 4530
FCO-1	FLOOR CLEAN OUT	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 4023
RD-1	ROOF DRAIN	N/A	N/A	N/A	N/A	J.R. SMITH 1010Y - C - R - CI DOME PROVIDE CAST IRON DOME.
OD-1	OVERFLOW DRAIN	N/A	N/A	N/A	N/A	J.R. SMITH 1080Y - C - R - CI DOME PROVIDE CAST IRON DOME.
DSN-1	DOWNSPOUT NOZZLE	N/A	N/A	N/A	N/A	J.R. SMITH 1770
WHA	WATER HAMMER ARRESTORS	AS REQUIRED	AS REQUIRED	N/A	N/A	J. R. SMITH 5020
SS-1	SERVICE SINK	¾"	¾"	3"	1½"	KOHLER: K-6710 w/ K-9142 STRAINER FAUCET: CHICAGO FAUCET MODEL # 897-RCF
S-1	SINK (SS 2 COMPARTMENT)	½"	½"	2"	1¼"	JUST: DLX-1829-A-GR WITH J35 STRAINER FAUCET: CHICAGO FAUCET MODEL # 786-SWE29CP PROVIDE W/ GARBAGE DISPOSAL UNIT GDU-1: ISE MODEL PRO 77, 1 hp, 115 V, 1Φ, 9.0 amps
EWC-1	ELECTRIC WATER COOLER	½"	N/A	1½"	1¼"	SUNROC: NWCA-8-BL (BI LEVEL FOUNTAIN) 7.8 gph, 4.5 FLA, 415 Watts, 120v - 1Φ, R-134A

ELECTRIC WATER HEATER SCHEDULE WH-

PLAN CODE	INPUT (KW)	RECOVERY RATE (GAL/HR)	TEMP RISE (°F)	DIMENSIONS	ELECTRICAL: VOLT & PHASE	AMPS	MANUFACTURER & MODEL NO.	REMARKS
WH-1	2,500	13	80	26" x 18" x 21"	208 / 1	10.4	A.O. SMITH DEL-15	WITH AMTROL ST-5 EXPANSION TANK

PUMP SCHEDULE P-

PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	MOTOR: H.P.	VOLTAGE & PHASE	MANUFACTURER & MODEL NO.	COMMENTS
P-1	CIRCULATOR	8	26	3250	1/8	120 / 1	TACO 0013	BRONZE FITTED

ROOF TOP UNIT SCHEDULE RTU-

PLAN CODE	UNIT TONAGE	TOTAL CFM	EXTERNAL STATIC PRESSURE	DESIGN CRITERIA: OUTSIDE AIR TEMP.	RETURN AIR DB	RETURN AIR WB	LEAVING AIR TEMP	EER	SENSIBLE COOLING CAPACITY (MBH)	HEATING CAPACITY: INPUT (MBH)	OUPUT (MBH)	ELECTRICAL: VOLTS PHASE	MCA	MOP	DIMENSIONS (in.): Length	Width	Height	OPER. WEIGHT (lbs)	MANUFACTURER & MODEL NO	REMARKS
RTU-1 & RTU-2	6	2,400	0.6	95	80	62	54.3/53.2	10.2	54.50	124.5	101.09	208 / 3	32.7	50	89	54	55	1,100	TRANE YSC072A3HA	SEE GENERAL NOTES

GENERAL NOTES:

1. VALUES ARE RATED AT 4,500 Ft. ELEVATION.
2. PROVIDE MINIMUM OUTSIDE AIR SET POINTS.
3. PROVIDE 14" FACTORY CURB.
4. PROVIDE ECONOMIZER. AND POWER EXHAUST.
5. PROVIDE FACTORY 4 OZ. GAS TRAIN.
6. PROVIDE COMPRESSOR CRANKCASE HEATER.
7. ALL ROOFTOP UNITS MUST MEED OR EXCEED CURRENT ASHRAE ENERGY CODE 90.1 STANDARDS.
8. PROVIDE FACTORY HACR CIRCUIT BREAKER.
9. PROVIDE 7 DAY PROGRAMMABLE T-STAT WITH 100 Ft. OF PLEMUN RATED T-STAT WIRE.
10. PROVIDE FACTORY MOUNTED CONV. OUTLET TO BE FIELD WIRED.
11. PROVIDE SMOKE DETECTOR IN SUPPLY & RETURN AIR DUCTWORK.
12. PROVIDE COIL GUARDS.

AIR DEVICE SCHEDULE

(GRILLE NUMBER / GRILLE CFM)

PLAN CODE	TYPE & DUTY	NECK SIZE	CEILING TYPE	N.C. LEVEL MAX	MAX. CFM	MANUFACTURER & MODEL NO.	REMARKS
1	RETURN	10" x 22"	See Plans	10	610	PRICE 22" x 10" / 24" x 12" / PDDR / 3 / B12	PROVIDE W/ SOUND BOOT
2	RETURN	22" x 22"	See Plans	10	1340	PRICE 22" x 22" / 24" x 24" / PDDR / 3 / B12	PROVIDE W/ DUCT COLLAR
3	EXHAUST	6"Φ	See Plans	15	170	PRICE 6"Φ / 12" x 12" / PDDR / 2 / B12	PROVIDE OBD
4	EXHAUST	14" x 14"	See Plans	31	490	PRICE 10"Φ / 16" x 16" / PDDR / 2 / B12	PROVIDE OBD
5	SUPPLY	8"Φ	See Plans	20	280	PRICE 8"Φ / 24" x 24" / SCDA / 3 / B12	
6	SUPPLY	10"Φ	See Plans	20	420	PRICE 10"Φ / 24" x 24" / SCDA / 3 / B12	
7	SUPPLY	12"Φ	See Plans	20	560	PRICE 12"Φ / 24" x 24" / SCDA / 3 / B12	

EXHAUST FAN SCHEDULE EF-

PLAN CODE	AREA SERVED	TYPE	CFM @ ELEV.	ESP	FAN RPM	MOTOR: WATTS	H.P.	VOLTAGE & PHASE	SONES	DAMPER TYPE	METHOD OF CONTROL	OPENING SIZE	OPERATING WT. (LBS.)	MANUFACTURER / MODEL	ACCESSORIES
EF-1	SEE PLANS	ROOF CENTRUGAL	488	0.75	1320	NA	1/4	120 / 1	7.9	BACK DRAFT	TIME CLOCK	12" x 12"	65	PENN BARRY DOMEX DX08B	PROVIDE FACTORY 14" CURB

GAS FIRED UNIT HEATER SCHEDULE UH-

PLAN CODE	HEATING MBH OUTPUT REQ'D. ELEVATION	MANUFACTURER & MODEL NO.	SPECIFIED UNIT CAP.: INPUT (S.L.) (MBH)	OUTPUT (S.L.) (MBH)	CFM (STD.)	THROW AT 12' MOUNTING (FT.)	ELECTRICAL: VOLT/ PHASE	FAN H.P.	FLUE SIZE / TYPE	SIZE: LENGTH	WIDTH	HEIGHT	WEIGHT	REMARKS
UH-1	80	MODINE PD 100	100	80	1,460	41	120 / 1	1/12	6"Φ / "B"	30"	18"	29"	110 lbs.	W/T-STAT, PIPE HANGER KIT AND FACTORY 4 OZ. GAS TRAIN.

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REDWOOD ROAD ABC STORE- REMODEL AND EXPANSION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 S. REDWOOD ROAD, WEST VALLEY, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

MECHANICAL SCHEDULES

Patrick T. Cantrell REGISTERED PROFESSIONAL ENGINEER 323760 State of Utah 5.17.07

REVISION # DATE:
CITY REVIEW 2/28/2007

DFCM PROJECT NO.:
06233030
PERMIT SET
FILE NAME: 6280.00
PLOT SCALE: SEE PLANS
DRAWN BY: AJG
CHECKED BY: KAG
DATE: MAY. 18,2007

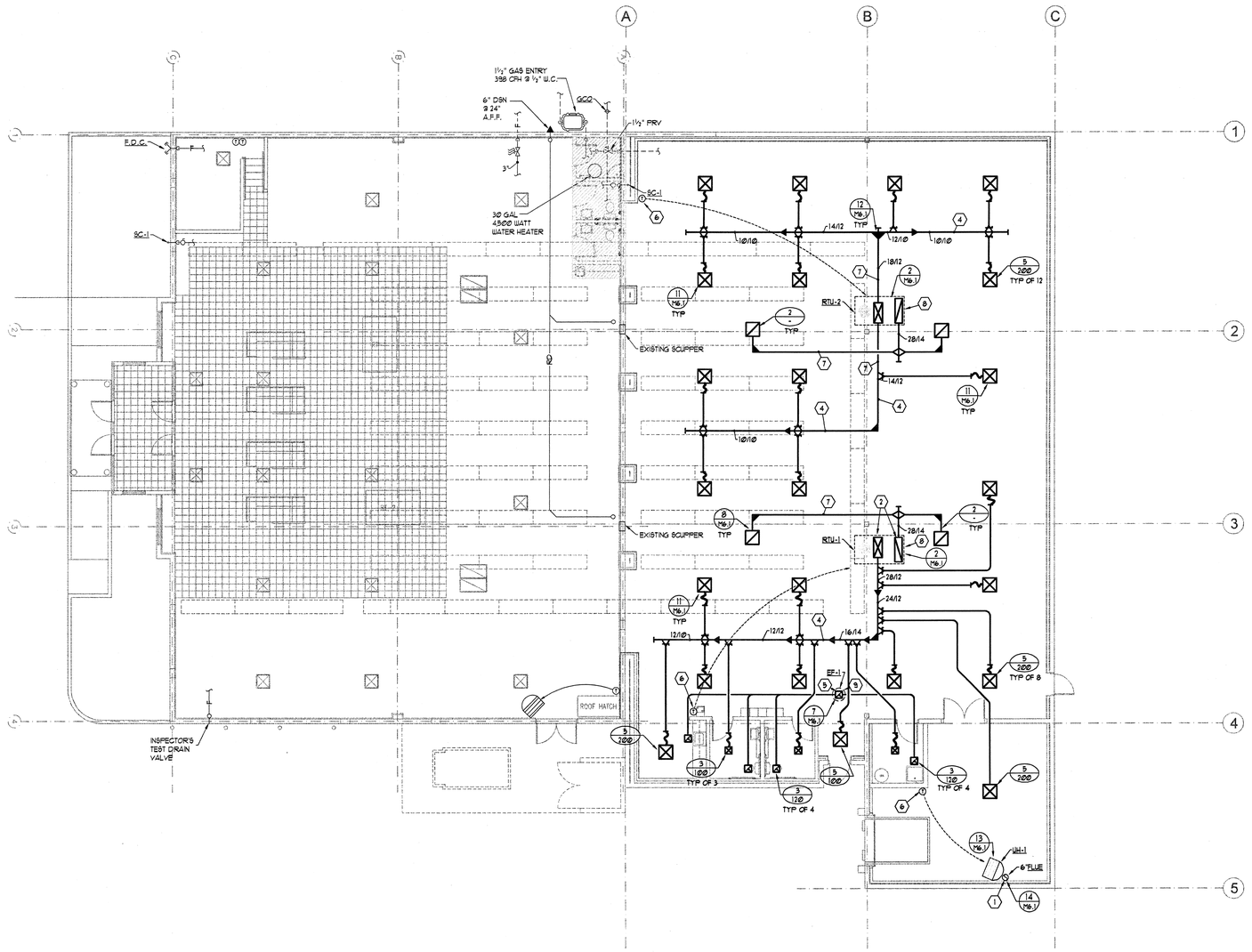
M0.1

KEYED NOTES:

1. 6" TYPE "B" FLUE UP THROUGH ROOF SEE DETAIL 6/M6.2
2. PROVIDE AND INSTALL DUCTWORK DROPS DOWN FROM UNIT SIZED FULL SIZE OF UNITS OPENINGS. (TYPICAL)
3. COORDINATE WITH ROOF STRUCTURAL AND INSTALL DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. IF POSSIBLE ROUTE MAINS UP IN BETWEEN JOIST. (TYPICAL)
4. COORDINATE WITH ARCH'S PLANS FOR FINAL ELEVATIONS AND LOCATIONS OF 7-DAY PROGRAMMABLE T-STAT'S. (TYPICAL)
5. 12"X12" RISER TO AIR DOME EF-1 ON ROOF.
6. PROVIDE LOCKING COVER FOR T-STAT.
7. HOLD DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. (TYPICAL)
8. OUTLINE OF RTU ON ROOF ABOVE.
9. OUTLINE OF EF-1 ON ROOF ABOVE.

GENERAL NOTES:

1. ALL EXPOSED DUCTWORK OR DUCTWORK ABOVE GYP. CEILINGS SHALL BE HARD DUCTED.
2. USE YOUNG GEAR TYPE BALANCING REGULATORS ABOVE ALL GYP. BOARD CEILINGS.
3. ALL MEDIUM PRESSURE DUCTWORK SHALL BE HELD TIGHT TO BOTTOM OF STRUCTURE. OFFSET AND TRANSITION AS REQUIRED.
4. OFFSET AND TRANSITION ALL DUCTWORK AND PIPING AS REQUIRED.
5. ALL VALVES SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS.
6. PROVIDE ACCESS PANELS AS REQUIRED.
7. CONTRACTOR TO COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
8. CONTRACTOR TO COORDINATE ALL FINAL LOCATION OF T-STAT'S WITH OWNER AND ARCHITECT.
9. CONTRACTOR TO PROVIDE AND INSTALL SOUND BOOTS ON ALL RETURN AIR GRILLES. BOOTS TO BE PAINTED FLAT BLACK.
10. CONTRACTOR TO COORDINATE GRILLES WITH REFLECTED CEILING GRID.
11. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT.
12. ALL PIPING SHALL BE HELD TIGHT TO BOTTOM OF STRUCTURE.
13. PROVIDE 4" DEEP SEAL TRAPS WITH TRAP PRIMERS ON ALL FLOOR DRAINS & FLOOR SINKS.
14. ALL WASTE PIPING TO BE SLOPED AS REQUIRED BY CODE.



MECHANICAL FLOOR PLAN

SCALE: 1/8" = 1' - 0" 6' 0 4' 8' 12' 16'

REDWOOD ROAD ABC STORE- REMODEL AND EXPANSION

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MECHANICAL PLANS

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Patrick T. Caldwell
REGISTERED
5-17-07
323760
PROFESSIONAL ENGINEER
State of Utah

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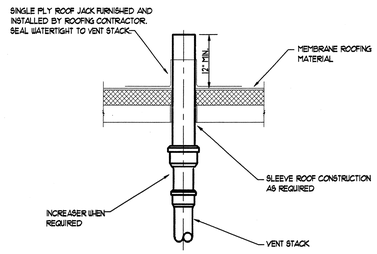
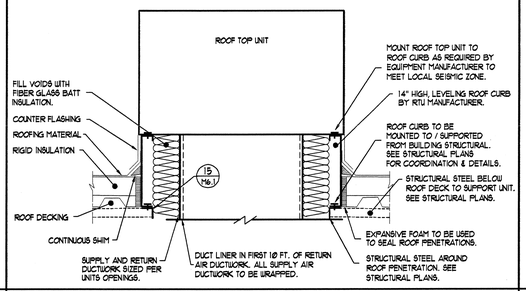


1 M6.1 VENT THROUGH ROOF DETAIL

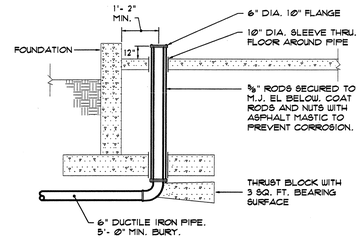
NOT TO SCALE

Note: ROOF TOP UNIT AND CURB SHOULD BE INSTALLED TO MEET LOCAL SEISMIC ZONE REQUIREMENTS. M.C. TO FOLLOW SEISMIC ENGINEER ON RECORD DETAILING AND REQUIREMENTS TO MEET LOCAL SEISMIC ZONE REQUIREMENTS.



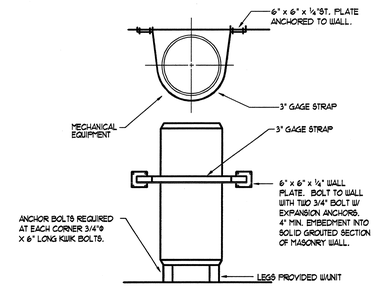
2 M6.1 ROOF TOP UNIT CURB DETAIL

NOT TO SCALE



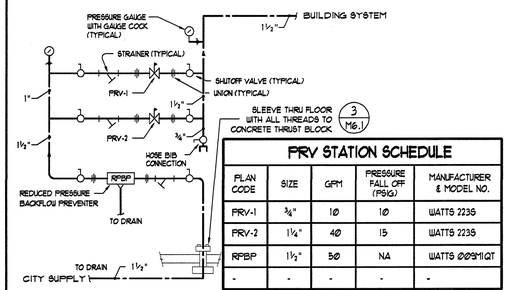
3 M6.1 WATER ENTRY DETAIL

NOT TO SCALE



4 M6.1 FLOOR MOUNTED EQUIPMENT ANCHOR & STRAP DETAIL

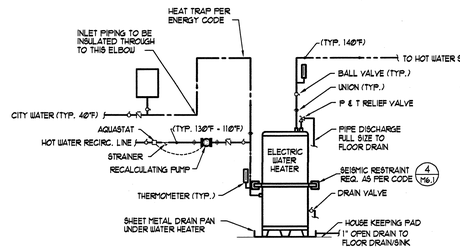
NOT TO SCALE



PRV STATION SCHEDULE				
PLAN CODE	SIZE	GPM	PRESSURE FALL OFF (PSIG)	MANUFACTURER & MODEL NO.
PRV-1	¾"	10	10	WATTS 2235
PRV-2	1¼"	40	15	WATTS 2235
RPBP	1½"	50	NA	WATTS 009M1QT
-	-	-	-	-

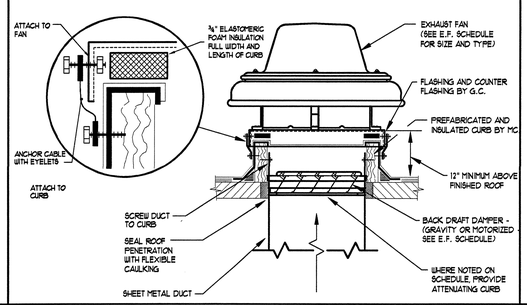
5 M6.1 PRV STATION DETAIL

NOT TO SCALE



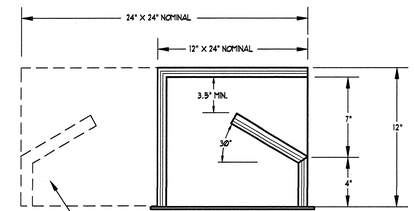
6 M6.1 ELECTRIC WATER HEATER PIPING DETAIL

NOT TO SCALE



7 M6.1 EXHAUST FAN AND CURB DETAIL

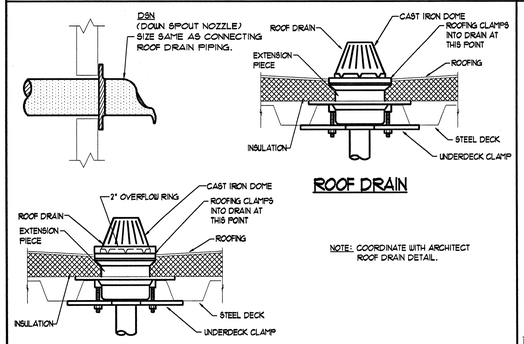
NOT TO SCALE



TYPICAL OF ALL RETURN AIR GRILLES

8 M6.1 RETURN AIR GRILLE SOUND BOOT DETAIL

NOT TO SCALE



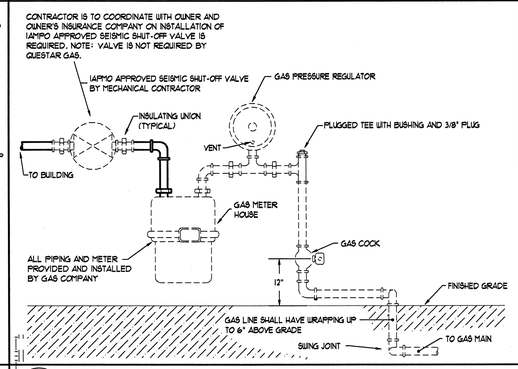
ROOF DRAIN

OVERFLOW ROOF DRAIN

NOTE: COORDINATE WITH ARCHITECT ROOF DRAIN DETAIL.

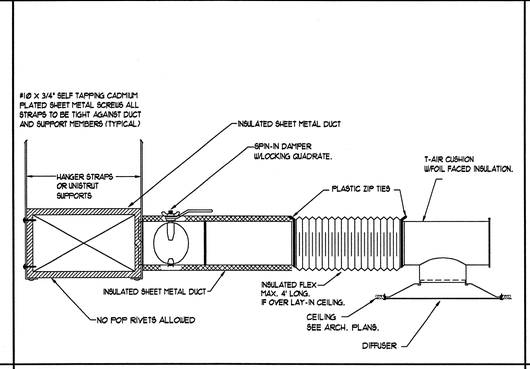
9 M6.1 ROOF DRAIN & OVERFLOW ROOF DRAIN DETAIL

NOT TO SCALE



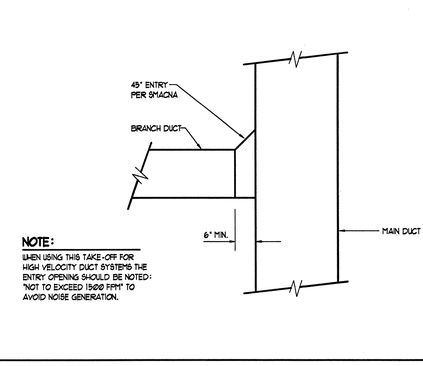
10 M6.1 GAS METER SERVICE CONNECTION DETAIL

NOT TO SCALE



11 M6.1 DIFFUSER MOUNTING DETAIL

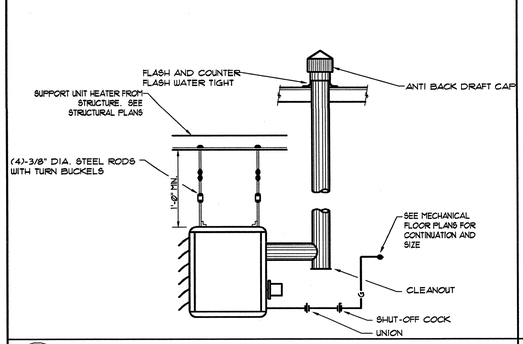
NOT TO SCALE



NOTE:
WHEN USING THIS TAKE-OFF FOR HIGH VELOCITY DUCT SYSTEMS THE ENTRY OPENING SHOULD BE NOTED: "NOT TO EXCEED 1500 FPM" TO AVOID NOISE GENERATION.

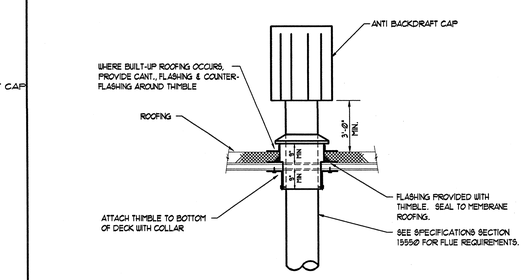
12 M6.1 TYPICAL DUCT TAKEOFF DETAIL

NOT TO SCALE



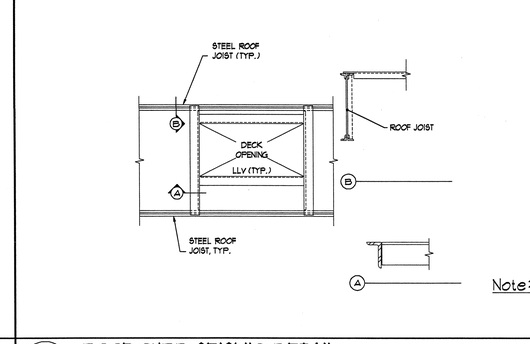
13 M6.1 GAS FIRED UNIT HEATER DETAIL

NOT TO SCALE



14 M6.1 FLUE ROOF PENETRATION DETAIL

NOT TO SCALE



Note: ROOF TOP UNIT AND CURB SHOULD BE INSTALLED TO MEET LOCAL SEISMIC ZONE REQUIREMENTS. M.C. TO FOLLOW SEISMIC ENGINEER ON RECORD DETAILING AND REQUIREMENTS TO MEET LOCAL SEISMIC ZONE REQUIREMENTS.

15 M6.1 ROOF CURB SEISMIC DETAIL (See Structural Plan for final detailing)

NOT TO SCALE

REDWOOD ROAD ABC STORE- REMODEL AND EXPANSION

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MECHANICAL DETAILS

PATRICK T. CRANE REGISTERED PROFESSIONAL ENGINEER 5-17-07 323760 STATE OF UTAH

REVISION #	DATE:
CITY REVIEW	2/28/2007

DFCM PROJECT NO.: 06233030
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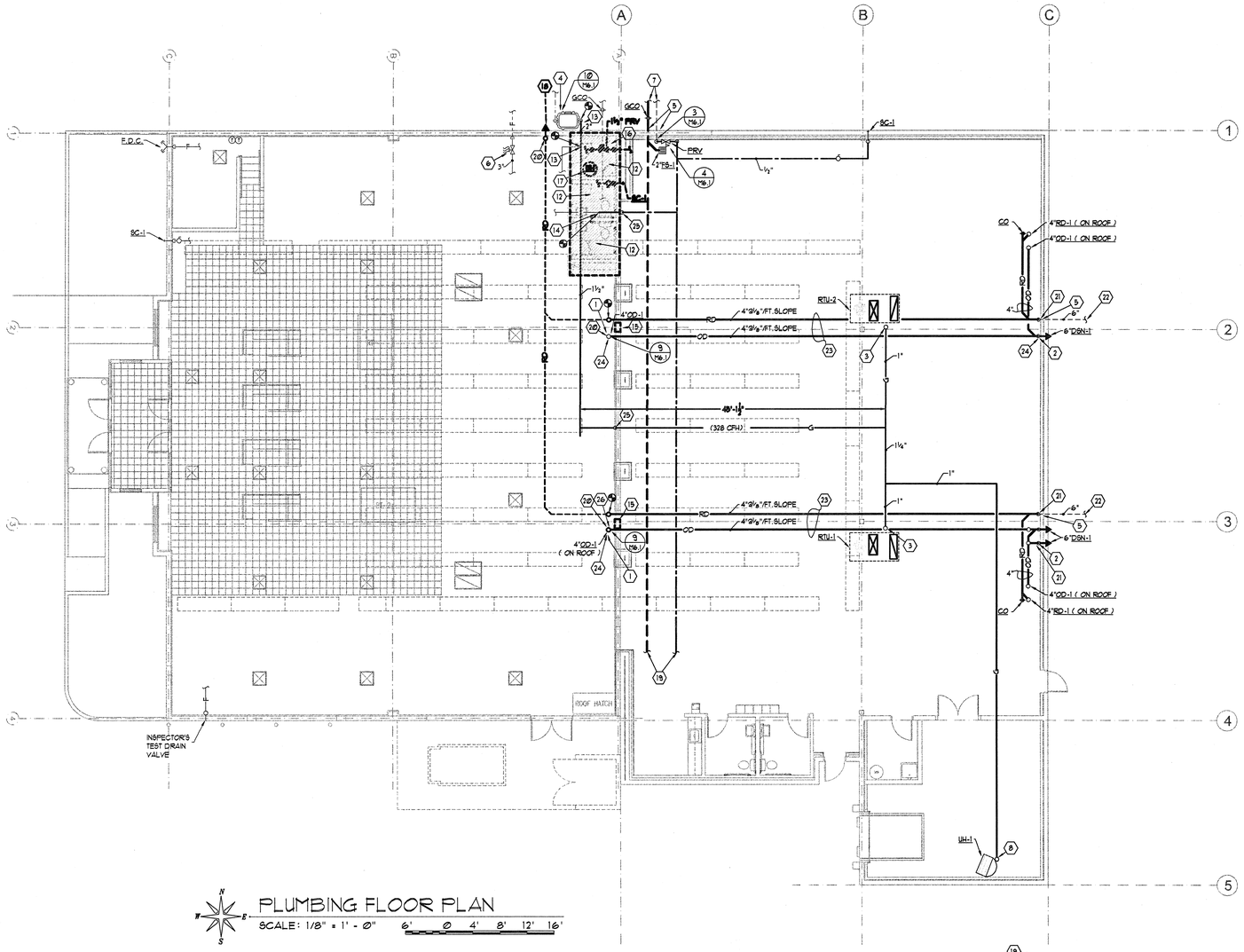
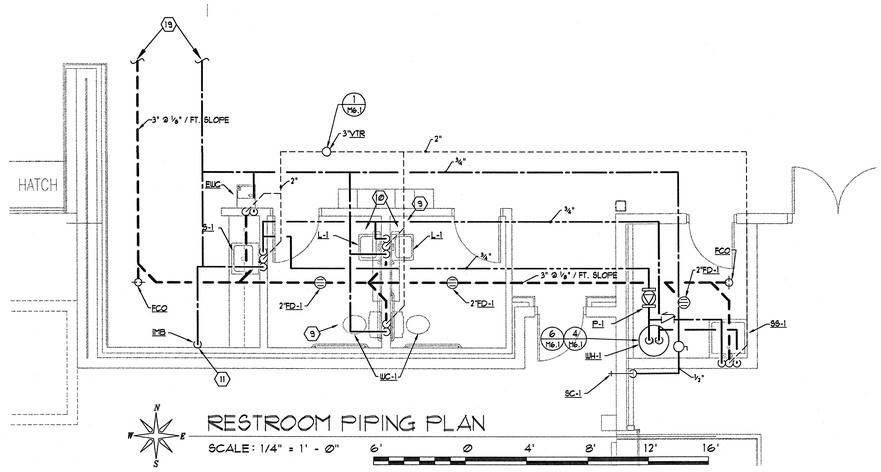


PLUMBING FLOOR PLAN

SCALE: 1/8" = 1' - 0"



RESTROOM PIPING PLAN

SCALE: 1/4" = 1' - 0"

KEYED NOTES:

1. 4" RISER TO OVERFLOW DRAINS ON ROOF.
2. EXTEND SECONDARY DOWN SPOUT OUT OF BUILDING. COORDINATE FINAL ELEVATIONS WITH ARCH'S/OWNER.
3. 1" GAS RISER TO ROOF TOP UNIT. M.C. TO PROVIDE FINAL CONNECTIONS REQUIRED.
4. GAS LOAD FOR NEW BUILDING/EXISTING BUILDING IS 726 CFH @ 4OZ. PRESSURE. QUESTAR TO VERIFY EXISTING METER OR REPLACE IF REQUIRED.
5. M.C. TO FIELD VERIFY AND COORDINATE WITH ARCH'S AND CIVIL'S PLANS IN PROVIDING CODE REQUIRED COVERAGE OVER ALL PLUMBING LINES ENTERING & EXISTING THE BUILDING.
6. F.P.C. TO FIELD VERIFY AND MODIFY EXISTING FIRE SPRINKLER SYSTEM AS REQUIRED TO HANDLE NEW BUILDING SPACE.
7. M.C. TO EXTEND AND CONNECT ALL NEW UTILITIES TO EXISTING SITE UTILITIES AS REQUIRED.
8. PROVIDE FINAL CONNECTION TO UNIT HEATER.
9. M.C. TO PROVIDE WATER HAMMER ARRESTORS ON ALL PIPING WITH QUICK CLOSE VALVES. (TYPICAL)
10. PROVIDE HOSE BIBB UNDER LAVATORY. (TYPICAL)
11. PROVIDE ICE MAKER CONNECTION BOX AT REFRIGERATOR. COORDINATE WITH ARCH/OWNER AS TO FINAL LOCATION.
12. M.C. TO DEMO ALL PLUMBING IN THIS SHADED AREA BACK TO MAINS AND CAP AS REQUIRED.
13. M.C. TO FIELD VERIFY AND DEMO EXISTING GAS PIPING THRU WALL AND REPLACE WITH NEW 2" GAS PIPING AS SHOWN. RECONNECT EXISTING GAS AS SHOWN.
14. M.C. TO CONNECT EXISTING COLD WATER PIPING TO NEW COLD WATER PIPING AS SHOWN.
15. M.C. TO FIELD VERIFY AND DEMO EXISTING ROOF SCUPPER DRAINS AS SHOWN.
16. M.C. TO COORDINATE WITH ARCH/OWNER AND DEMO EXISTING PRV STATION. M.C. TO PROVIDE TEMPORARY WATER SERVICE IF REQUIRED UNTIL NEW SERVICE IS INSTALLED.
17. M.C. TO DEMO EXISTING WATER HEATER AS SHOWN.
18. M.C. TO FIELD VERIFY EXISTING ROOF DRAIN DROP AND NOZZLE AND PROVIDE NEW ELECTRICAL HEAT TAPE FOR EXISTING AND NEW OVERFLOW DRAIN DROPS. COORDINATE WITH ELECTRICAL TO PROVIDE SERVICE. TAPE TO BE SELF REGULATING AT 20 WATTS PER FOOT.
19. SEE ENLARGED PLAN FOR CONTINUATION OF PIPING.
20. M.C. TO FIELD VERIFY AND CONNECT TO EXISTING ROOF DRAIN ON ROOF. M.C. TO REMOVE EXISTING ROOF DRAIN PIPING AND DOWN SPOUT NOZZLE.
21. M.C. TO DROP 6" DRAINAGE PIPING DOWN TIGHT ALONG OUTSIDE WALL.
22. M.C. TO EXTEND PIPING AS REQUIRED AND CONNECT TO NEW CIVIL DRAINAGE PIPING. SEE ARCH'S PLANS AND CIVIL'S PLANS FOR FINAL LOCATIONS.
23. M.C. TO COORDINATE WITH STRUCTURAL AND ROUTE UP IN JOIST SPACE. COORDINATE ROUTING WITH DUCTWORK.
24. OFFSET PIPING SO THAT IT ROUTES INTO JOIST SPACE IN NEW ADDITION. FIELD VERIFY.
25. OFFSET PIPING AS REQUIRED TO ROUTE TIGHT TO BOTTOM OF STRUCTURE IN BOTH NEW AND EXISTING BUILDING.(TYPICAL)
26. M.C. TO FIELD VERIFY EXISTING ROOF DRAIN AND REPLACE WITH NEW 4" WITH FAST IRON DOME AS REQUIRED. (TYPICAL)

GENERAL NOTES:

1. ALL EXPOSED DUCTWORK OR DUCTWORK ABOVE GYP. CEILINGS SHALL BE HARD DUCTED.
2. USE YOUNG GEAR TYPE BALANCING REGULATORS ABOVE ALL GYP. BOARD CEILINGS.
3. ALL MEDIUM PRESSURE DUCTWORK SHALL BE HELD TIGHT TO BOTTOM OF STRUCTURE. OFFSET AND TRANSITION AS REQUIRED.
4. OFFSET AND TRANSITION ALL DUCTWORK AND PIPING AS REQUIRED.
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13. PROVIDE 4" DEEP SEAL TRAPS WITH TRAP PRIMERS ON ALL FLOOR DRAINS & FLOOR SINKS.
14. ALL WASTE PIPING TO BE SLOPED AS REQUIRED BY CODE.

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Patrick P. Cantrell — Registered Professional Engineer — State of Utah — 323760

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P2.1

EQUIPMENT SCHEDULE

UNIT #	FUNCTION	LOAD	VOLT	PHASE	FULL LOAD AMPS	CONDUIT SIZE	NO. SETS	WIRES NO.	WIRES SIZE	OCPD TYPE	OCPD AMPS	REF. NOTES / REMARKS
EF-1	EXHAUST FAN	75W	120	1	0.74	3/4"	1	2	12	CB	20	MANUAL THERMAL STARTER
EWC-1	ELECT. WATER COOLER	1/8HP	120	1	3.75	3/4"	1	2	12	CB	20	PLUG & CORD CONNECTION
P-1	PUMP	1/8HP	120	1	3.75	3/4"	1	2	12	CB	20	MANUAL THERMAL STARTER
RTU-1	ROOF TOP UNIT	32.7FLA	208	3	32.7	3/4"	1	3	6	CB	50	UNIT C/W DISCONNECT & RECEPTACLE
RTU-2	ROOF TOP UNIT	32.7FLA	208	3	32.7	3/4"	1	3	6	CB	50	UNIT C/W DISCONNECT & RECEPTACLE
UH-1	UNIT HEATER	1/12HP	120	1	3.00	3/4"	1	2	12	CB	20	MANUAL THERMAL STARTER
WH-1	ELECT. WATER HEATER	2.5KW	208	1	14.14	3/4"	1	2	12	CB	15	FUSED DISCONNECT SWITCH 30/15
SL	SISSOR LIFT	5HP	208	3	7.3	3/4"	1	3	6	CB	40	WIRE CONTROLS
BC	BOX CRUSHER	1/2HP	120	1	6.9	3/4"	1	2	12	CB	20	PLUG & CORD

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURE	CATALOG NUMBER	DESCRIPTION	LAMPS	QTY	FIX WATTS	MTG	VOLTS
A	METALUX	2GC8-332AUNV-EB8I	RECESSED 2X4 LENSED PARABOLIC FLUORESCENT FIXTURE	F32 T5 SP35	3	115	LAY-IN	120
AE	METALUX	2GC8-332AUNV-EB8I-EBTI	RECESSED 2X4 LENSED PARABOLIC FLUORESCENT FIXTURE W/BATTERY PACK	F32 T8 SP35	3	115	LAY-IN	120
C	METALUX	BI-232-UNV-EB8I	WALL MOUNTED 4' 2LAMP FLUORESCENT FIXTURE	F32 T8 SP35	2	66	SURF WAL	120
D	METALUX	WB-232A-UNV-EB8I	SURFACE MOUNT 2LAMP FLUORESCENT WRAP AROUND FIXTURE	F32 T8 SP35	2	66	SURF	120
E	SURE LITE	CUIHD	WALL MOUNTED EMERGENCY BATTERY PACK	L/W FIXTURE	2	50	SURF	120
F	METALUX	8T-DI-232-UNV-EB8I	8' 2LAMP INDUSTRIAL FLUORESCENT FIXTURE	F32 T8 SP35	4	110	SUSP	120
G	PORTFOLIO	C7042E-7000LI-TRM7P	RECESSED FLUORESCENT DOWNLIGHT	32W PLT	1	35	REC	120
XI	SURE LITE	CX7170-G-SD	LED EXIT SIGN WITH WHITE BODY & GREEN LETTERS	C/W FIXTURE	-	4	SURF	120
OA	LUMARK	ENV100MH-120-MB-FTP-GM-LG-PM-175	SURFACE MOUNTED 175W METAL HALIDE WALLPACK	(1) 175W MH	1	195	SURF	120

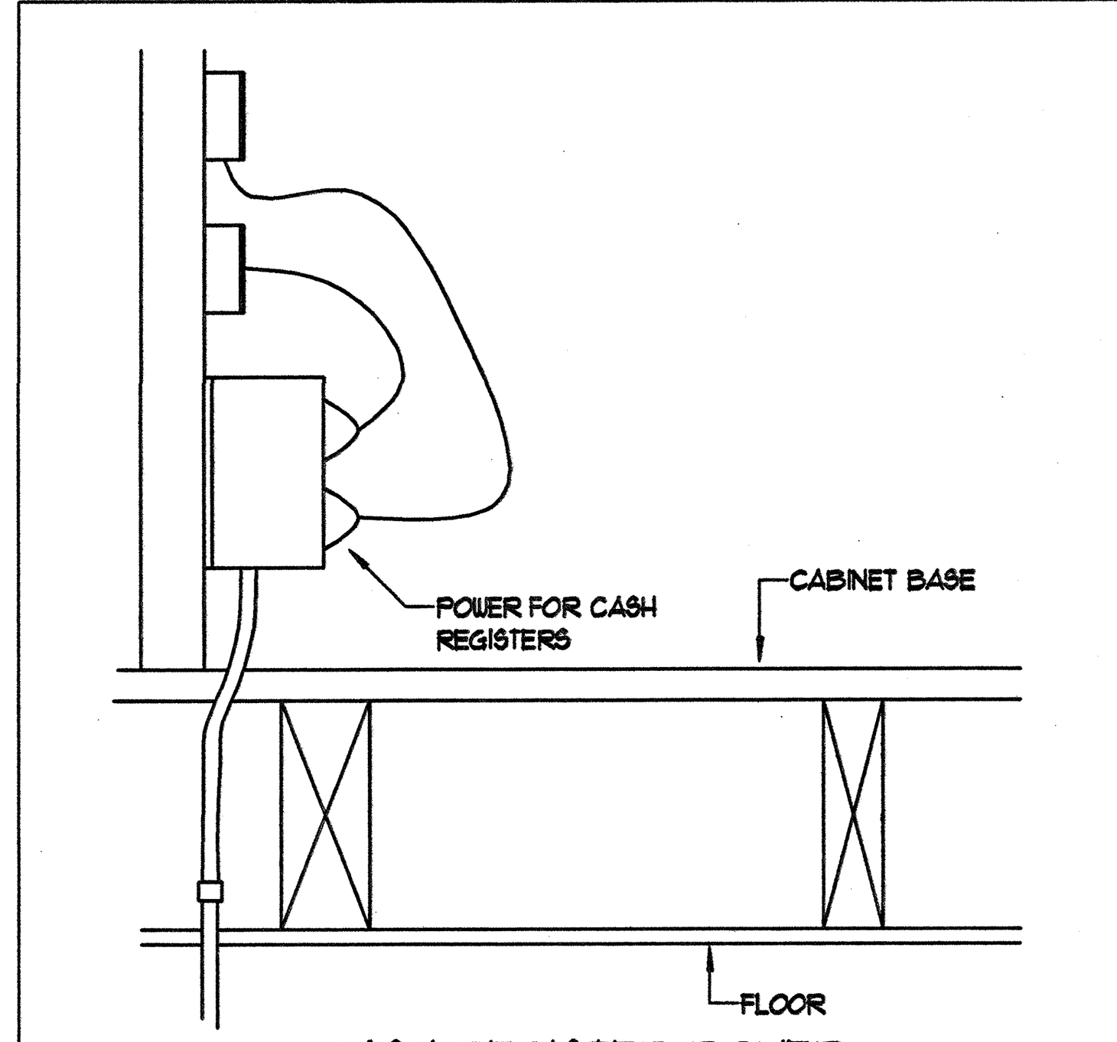
ELECTRICAL SYMBOL SCHEDULE

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

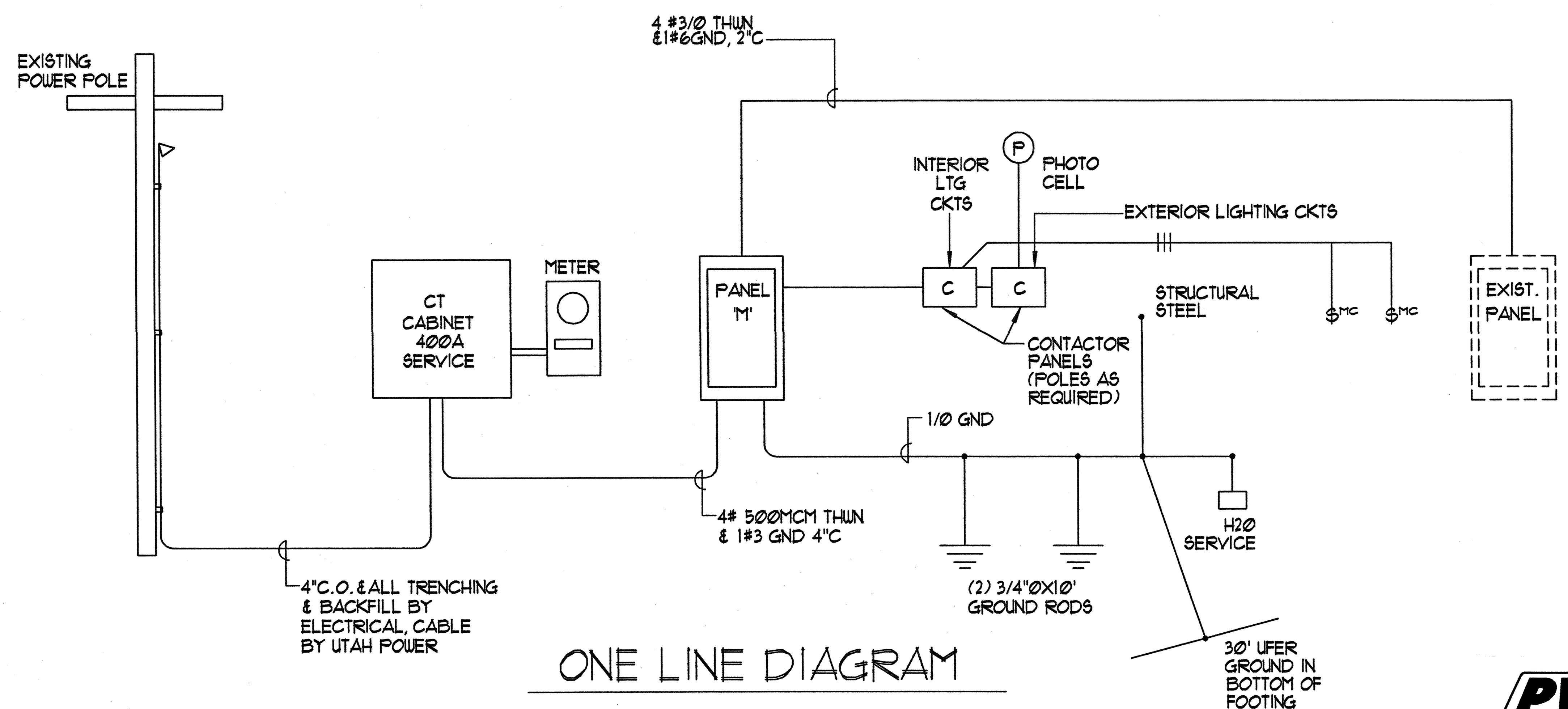
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL		
	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		
	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT UP		
	CONDUIT DOWN		
	CONDUIT STUB LOCATION	CAP CONDUIT	
	CEILING LIGHT FIXTURE	CEILING	
	WALL LIGHT FIXTURE	AS NOTED	
	RECESSED DOWNLIGHT FIXTURE	CEILING	
	FLUORESCENT LIGHT FIXTURE	AS NOTED	
	FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED
	CEILING MOUNTED EXIT LIGHT	CEILING	
	WALL MOUNTED EXIT LIGHT	AS NOTED	
$	SINGLE POLE SWITCH	+4'-0"	
$3	THREE-WAY SWITCH	+4'-0"	
$4	FOUR-WAY SWITCH	+4'-0"	
D	DIMMER SWITCH	+4'-0"	
	DUPLEX RECEPTACLE	+16"	
A	DUPLEX RECEPTACLE		ABOVE COUNTER
W	ELECTRIC WATER COOLER RECEPTACLE		SEE DETAIL
WP	WEATHERPROOF RECEPTACLE	+24"	
IG	ISOLATED GROUND RECEPTACLE	+16"	
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16"	
	FOURPLEX RECEPTACLE	+16"	
	SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	
	TELEPHONE OUTLET-RUN 3/4"C 6 TEL. EQUIP BOARD	+16"	
	TELEPHONE/DATA OUTLET-RUN 3/4"C TO TEL EQUIP BOARD	+16"	
J	JUNCTION BOX ('F' IN FLOOR)	AS NOTED	
	MOTOR OUTLET	TO SUIT EQUIP.	
$T	MANUAL STARTER THERMAL OVERLOAD SWITCH W/PILOT LIGHT	+4'-0"	
	PANEL BOARD	TOP AT +6'-0"	
	TELEPHONE TERMINAL BOARD		
F	FIRE ALARM MANUAL STATION	+4'-0"	
H	FIRE ALARM SIGNAL HORN/STROBE (CLG) = CEILING	+6'-8"	
S	SMOKE DETECTOR	CEILING	
D	DUCT SMOKE DETECTOR		MTD. IN DUCT
H	HEAT DETECTOR	CEILING	
842	ARCHITECTURAL ROOM NUMBER		
A	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
EQ 34	EQUIPMENT NUMBER		
	OVER HEAD DOOR CONTROLLER		
	FUSED DISCONNECT SWITCH		
	DISCONNECT SWITCH		
	CLOSED CIRCUIT TELEVISION CAMERA	CEILING	
	SECURITY DOOR POSITION INDICATING SWITCH	DOOR JAMB	
M	SECURITY MOTION SENSOR	CEILING	
GB	GLASS BREAK SENSOR	+36"	VERIFY

GENERAL NOTES

1. DO NOT SCALE DRAWINGS VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS.
2. FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
3. CONSULT ARCHITECTS REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS ETC.
4. ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO DUCT, PIPING AND CEILING INSTALLATIONS.
5. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH JUNCTION, PULL AND TERMINATION POINT, USING PERMANANT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
6. ALL PENETRATIONS OF FIRE RATED FLOORS, CEILING AND WALLS SHALL BE SEALED WITH APPROVED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF ASSEMBLY.
7. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR.
8. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO VERBALLY APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.
9. CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.
10. WORK SHALL BE PERFORMED IN A PROFESSIONAL WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
11. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
12. CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.
13. THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROMPTLY CORRECTED.
14. PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
15. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
16. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY ALL CODE AND MAINTENANCE REQUIRED CLEARANCES ARE MAINTAINED.
17. CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DESCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.
18. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS RESULT IN DEFECT OR IMPROPER OPERATION THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER.
19. WIRE SHALL BE COPPER 75° C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3" OF FLUORESCENT BALLAST SHALL BE COPPER, MINIMUM 90° C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30° C AMBIENT TEMPERATURE ENVIROMENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
20. SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS ENTERING BOXES WITH "DUCTSEAL" OR EQUAL.
21. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS BOUND IN A THREE RING BINDER, INDEXED IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO: LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANCY SENSORS, CONTACTORS, TIME CLOCKS, PHOTOCELLS, RELAYS, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUCTORS OVER 600 VOLTS AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROLS, SECURITY SYSTEMS, SOUND SYSTEMS ETC.
22. VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL EXCAVATION, SUPPORTS, SERVICE FEEDERS, (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING ETC, REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCHING TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL AND MECHANICAL ENGINEERS AND CONTRACTORS.
23. PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING AT GRADE LEVEL, SHALL BE WEATHERPROOF TYPE WITH HINGED GASKETED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.
24. CONTROL OUTDOOR LIGHTING WITH CONTACTOR & 24/7 TIME CLOCK WITH RESERVE POWER AND PHOTO CELL NEAR ROOF.



CASH REGISTER POWER



ONE LINE DIAGRAM

PVE Inc. Consulting Mechanical Electrical Engineers
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REDWOOD ROAD ABC STORE
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 S. REDWOOD ROAD, WEST VALLEY, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

SYMBOLS, SCHEDULES & NOTES

REGISTERED PROFESSIONAL ENGINEER No. 154867 DEAN P. LEVORSEN STATE OF UTAH 5-18-07

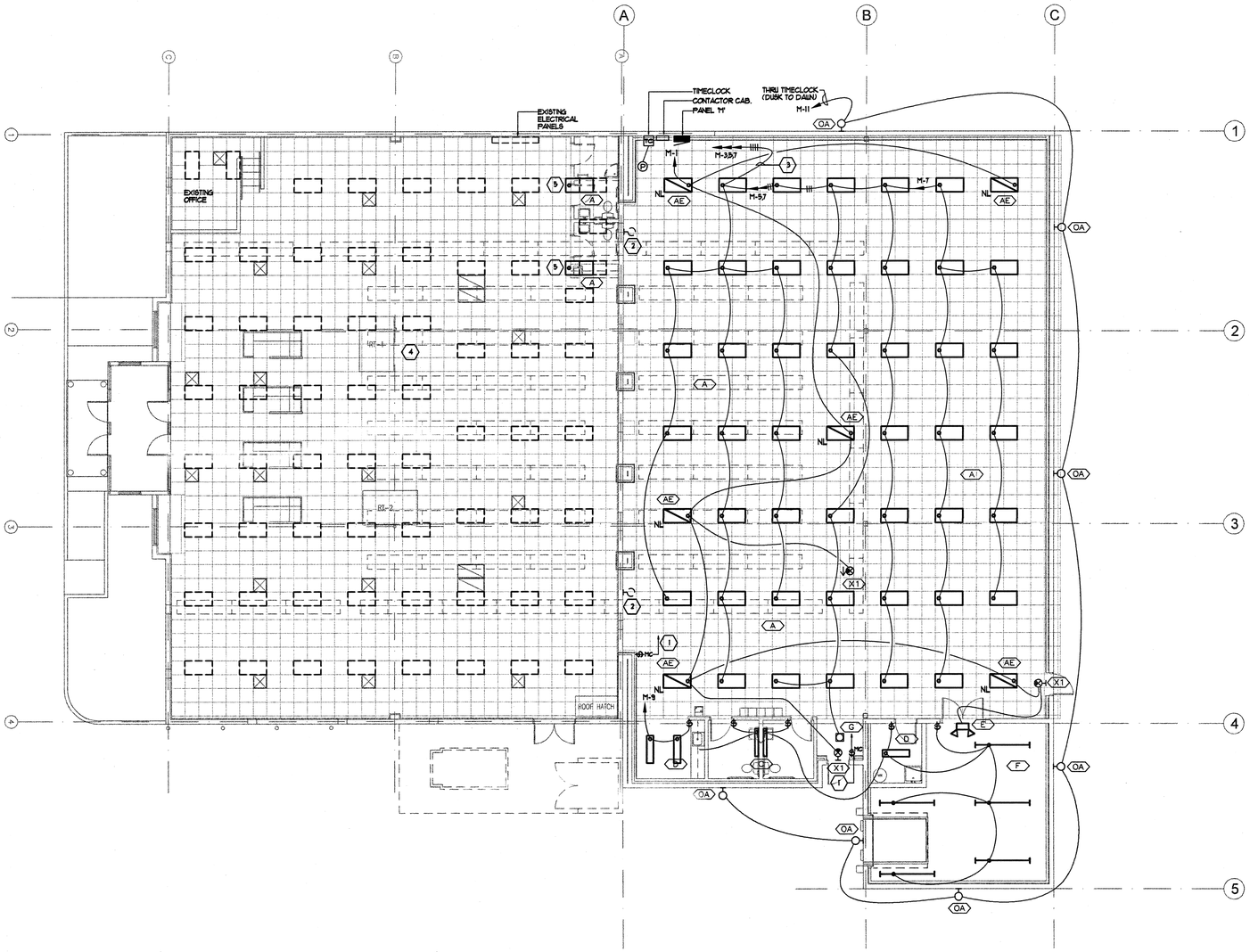
REVISION # DATE:

DFCM PROJECT NO.: 06234030
PERMIT SET
FILE NAME: 06280
PLOT SCALE: SEE PLANS
DRAWN BY: KDM
CHECKED BY: RKR
DATE: JAN. 2007

E001

KEYED NOTES

1. MOMENTARY CONTACT SWITCH, WIRE TO CONTACTOR.
2. EXISTING EXTERIOR LTG. WALLPACK TO BE REMOVED & RETURNED TO OWNER.
3. WIRE CIRCUIT THROUGH CONTACTOR.
4. CLEAN & RELAMP ALL EXISTING LENSED FLOURESCENT 4-LAMP TROFFERS.
5. WIRE NEW FIXTURE TO EXISTING CIRCUIT.



LIGHTING PLAN

SCALE: 1/8" = 1' - 0"

6' 0 4' 8' 12' 16'

LIGHTING PLAN

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REGISTERED PROFESSIONAL ENGINEER
No. 154882
DEAN F. LEVORSEN
STATE OF UTAH
10-07

REVISION # DATE:

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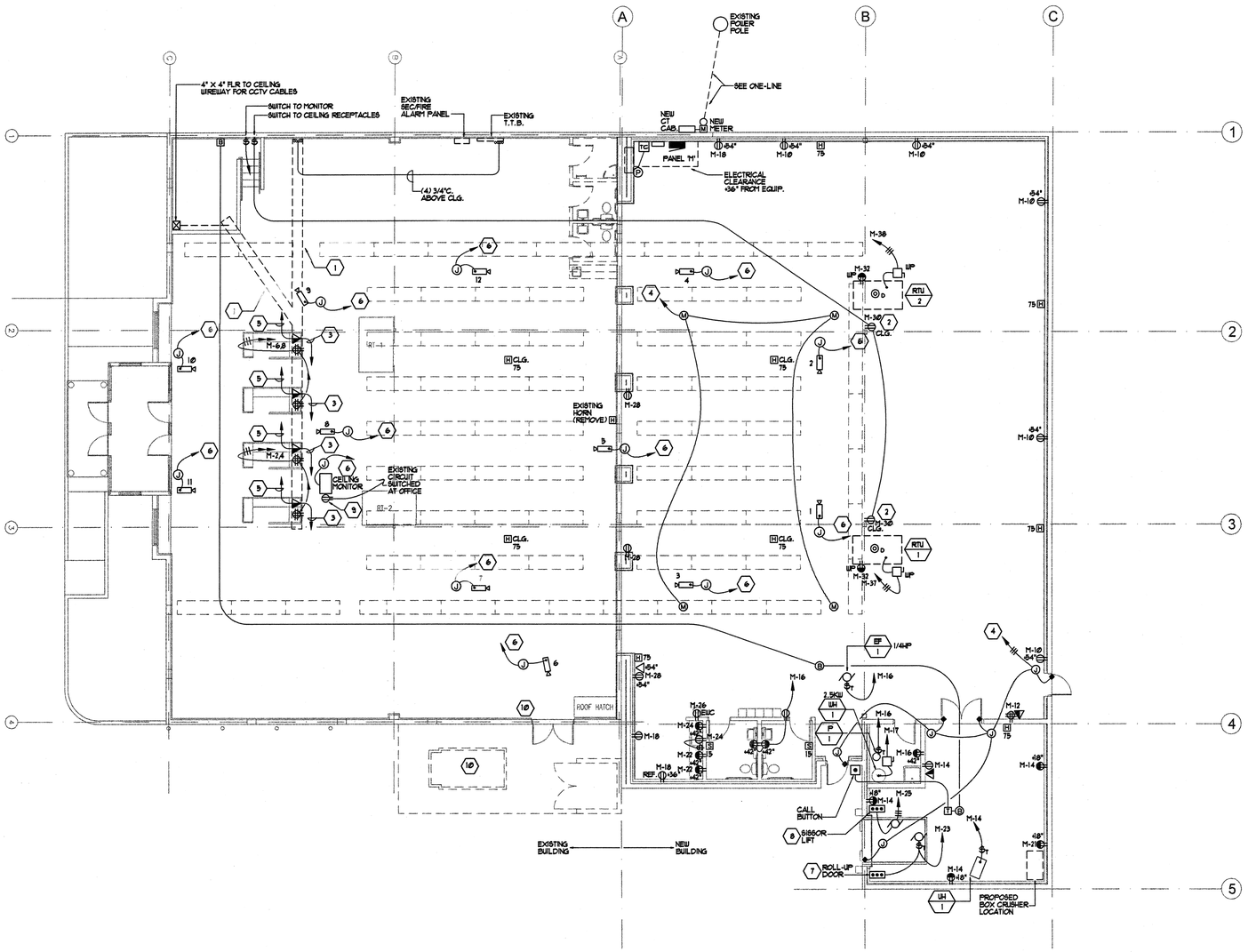

POWER PLAN

SCALE: 1/8" = 1' - 0"

0' 4' 8' 12' 16'

KEYED NOTES

1. SAW CUT FLOOR FOR INSTALLATION OF POWER, DATA & PHONE CONDUITS.
2. OUTLET IN CEILING FOR SEASONAL DISPLAYS WITH SWITCH AT OFFICE.
3. 3/4" CONDUIT WITH 4-PAIR, CAT-5E CABLES TO PHONE BOARD.
4. 3/4" CONDUIT TO SECURITY SYSTEM PANEL WITH WIRES PER MANUFACTURER RECOMMENDATIONS.
5. 3/4" CONDUIT WITH (2) 4-PAIR, CAT-5E CABLES TO DATA RACK IN OFFICE.
6. 3/4" CONDUIT WITH COAX. & CONTROL CABLE TO CCTV EQUIPMENT IN OFFICE. VERIFY EXACT CAMERA & CRT MONITOR LOCATION WITH ABC REPRESENTATIVE PRIOR TO ROUGH-IN.
7. POWER DOOR CONTROLLER PROVIDED WITH DOOR. INSTALLED & WIRED BY ELECTRICAL.
8. SISSOR LIFT CONTROLLER PROVIDED WITH LIFT. INSTALLED & WIRED BY ELECTRICAL.
9. RECEPTACLE IN CEILING FOR T.V. MONITOR WITH SWITCH IN OFFICE. VERIFY EXACT LOCATION WITH ABC.
10. REMOVE AND ABANDON ALL ELECTRICAL TO EXISTING SISSOR LIFT.

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POWER PLAN

REGISTERED PROFESSIONAL ENGINEER
No. 154867
DEAN P. UNDERBEN
STATE OF UTAH
12-18-07

REVISION # DATE:

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06234030
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PANELBOARD SCHEDULE

PANEL M' | 120/208 VOLTS | 3 PH | 4 W

MOUNTING: [ ] FLUSH [XX] SURFACE

RATING: 10,000 AIC | AMP 400

LOCATION: STOCK RM.
PROJECT: KIMBAL JCTN. LIQUOR STORE

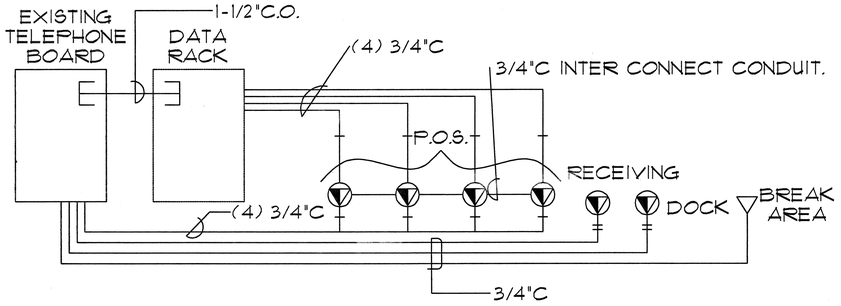
BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	B	C	RIGHT PHASE LOAD A	B	C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
NIGHT LIGHTS	20	1	12	1	800			500			2	20	1	12	RECEPTACLES
LIGHTING *				3		1600			500		4				
*				5			1600			500	6				
*				7	1200			500			8				
*				9		1000			1000		10				
EXTERIOR LIGHTS				11			1400			600	12				
SPARE	20	1		13				1000			14				
SPARE	20	1		15					600		16				
SPARE	20	1		17						1000	18				
SPARE	20	1		19				1000			20				
BOX CRUSHER	20	1	12	21		1000			1000		22				
ROLL-UP DOOR	20	1	12	23			1000			1000	24				
SISSOR LIFT	40	3	8	25	2000			600			26				
-	-	-	-	27		2000			600		28				
-	-	-	-	29			2000			400	30				
EXIST. PANEL	200	3	3/0	31	20000			400			32				
-	-	-	-	33		20000			-		34	20	1		SPARE
-	-	-	-	35			20000			-	36	20	1		SPARE
RTU-1	50	3	8	37	3900			3900			38	50	3	8	RTU-2
-	-	-	-	39		3900			3900		40	-	-	-	-
-	-	-	-	41			3900			3900	42	-	-	-	-
					27900	29500	29900	7900	7600	7400					
				TOTAL	35800	37100	37300								

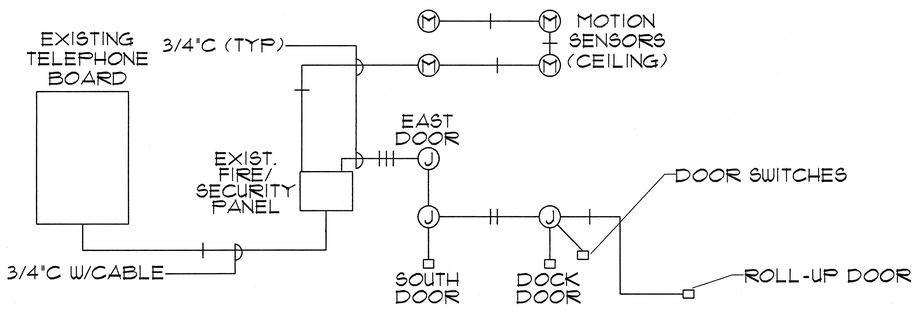
LOAD TOTAL 110200

FLA 306

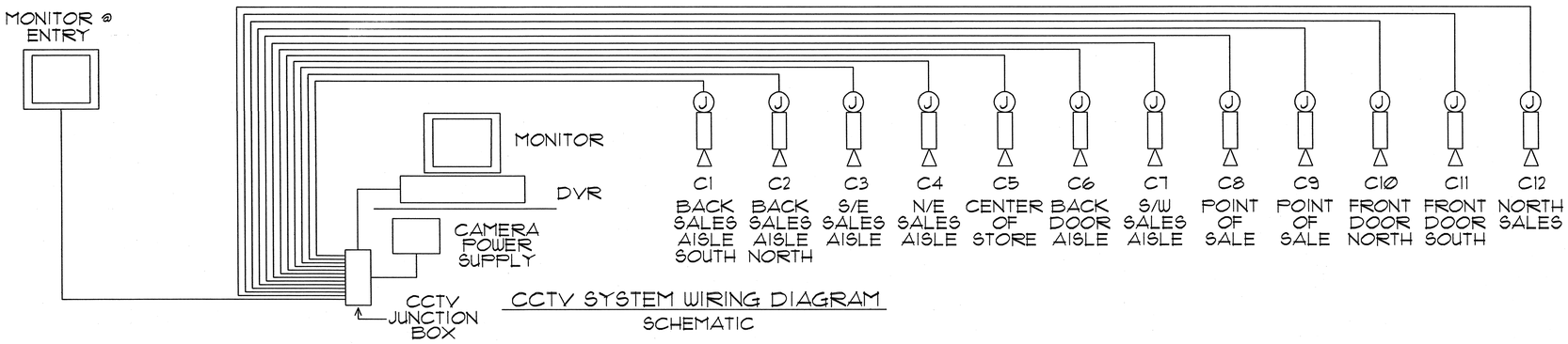
* WIRE THRU CONTACTOR CABINET



VOICE DATA WIRING DIAGRAM
SCHEMATIC



SECURITY SYSTEM WIRING DIAGRAM
SCHEMATIC



CCTV SYSTEM WIRING DIAGRAM
SCHEMATIC

SCHEMATIC & PANEL SCHEDULES

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